

AD-A087 438

ROHR MARINE INC NATIONAL CITY CA

F/6 13/10

SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)

MAY 80

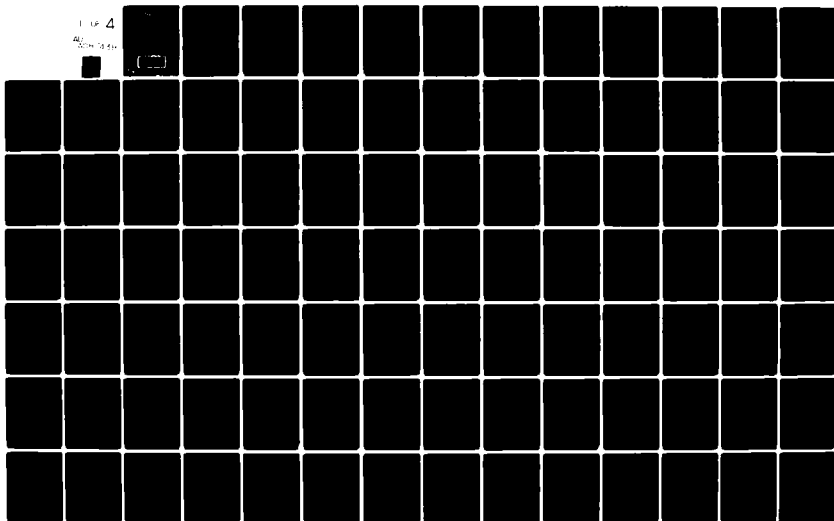
N00024-77-C-2032

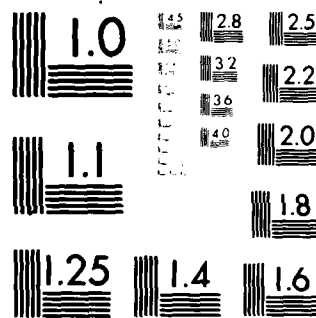
NL

UNCLASSIFIED

1 OF 4

AD-A087 438





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

**LEVEL**

PART 3 OF 3

ADA 087438

**SURFACE EFFECT SHIP  
STRUCTURAL PRODUCIBILITY**

Part 3.

11 14 May 1980

12 369

DTIC  
ELECTE  
AUG 4 1980

THIS DOCUMENT IS BEST QUALITY PRACTICABLE.  
THE COPY FURNISHED TO DDC CONTAINED A  
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.

15  
CONTRACT NO. N00024-77-C-2732

Approved for public release;  
distribution unlimited

DDC FILE COPY

**ROHR MARINE, INC.**  
A Subsidiary of Rohr Industries, Inc.  
Post Office Box 2300  
Chula Vista, California 92012

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY  
PRACTICABLE. THE COPY FURNISHED  
TO DTIC CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.**



1

## TABLE OF CONTENTS

		Page
1 /	INTRODUCTION	1-1
2 /	RECOMMENDATIONS/OBSERVATIONS	2-1
2.1	Welding & Fabrication Technology Summary Report . . . . .	2-1
2.2	SES-100A1 Conversion Program . . . . .	2-3
2.3	3KSES Mini-Module Program . . . . .	2-17
2.3.1	Background . . . . .	2-17
2.3.2	Scope . . . . .	2-21
2.3.3	Structural Drawings . . . . .	2-22
2.3.4	Tee's . . . . .	2-23
2.3.5	Fabricated Tee's . . . . .	2-23
2.3.6	Mouseholes . . . . .	2-24
2.3.7	Inserts . . . . .	2-24
2.3.8	Welding Accessibility . . . . .	2-24
2.3.9	Welded Erection Splicing Inserts . . . . .	2-25
2.3.10	Weld Symbols . . . . .	2-25
2.3.11	Interface Flatbar . . . . .	2-25
2.3.12	Frame Slots . . . . .	2-26
2.4	Producibility Studies . . . . .	2-26
2.4.1	Task Description . . . . .	2-26
2.4.2	Summary . . . . .	2-26
2.4.3	Requirements . . . . .	2-30
2.4.3.1	Factors of Safety . . . . .	2-30
2.4.3.2	Design Load Conditions . . . . .	2-31
2.4.3.3	Material Properties . . . . .	2-32
2.4.4	Approach . . . . .	2-33

Accession For	✓			
THIS GPO&I				
DC TAB				
Announced				
Notification				
Distribution/				
Availability Codes				
A. and/or				
special				
at				
AS				

## TABLE OF CONTENTS (Continued)

	Page
2.4.4.1 Analysis Assumptions . . . . .	2-34
2.4.4.2 Alternate Stiffener Configurations . . . . .	2-34
2.4.4.3 Alternate Inner Bottom Floor Configurations . . . . .	2-38
2.4.4.4 Transverse Frame Height Standardization . . . . .	2-38
2.4.4.5 Methods of Analysis . . . . .	2-38
2.4.4.6 Structural Weight . . . . .	2-41
2.4.4.7 Producibility Considerations . . . . .	2-41
2.4.5 Results . . . . .	2-43
2.4.5.1 Alternate Stiffener Configurations . . . . .	2-43
2.4.5.2 Alternate Inner Bottom Floor Configurations . . . . .	2-45
2.4.5.3 Transverse Frame Height Standardization . . . . .	2-46
2.4.6 Conclusions and Recommendations . . . . .	2-47
2.4.6.1 Conclusions . . . . .	2-47
2.4.6.2 Recommendations . . . . .	2-48
 3 / APPLICATION OF LESSONS LEARNED . . . . .	 3-1
3.1 3KSES Engineering Producibility Innovations . . . . .	3-1
3.1.1 Moldline Change . . . . .	3-1
3.1.2 Frame and Longitudinal Bulkhead Connection . . . . .	3-1
3.1.3 90° Tee to Tee (Webs in Plane) Connection . . . . .	3-1
3.1.4 Structural Stiffeners . . . . .	3-1
3.1.5 Transverse & Vertical Interface Tees . . . . .	3-7
3.2 Manufacturing Lessons Learned . . . . .	3-7
3.2.1 Welding Sequence . . . . .	3-7
3.2.2 Erection . . . . .	3-8
3.2.3 Chocks and Small Brackets . . . . .	3-9
3.2.4 Distortion Reduction . . . . .	3-9
3.2.5 Panel Welder . . . . .	3-9
3.2.6 Avoiding Cracks Due to Welding . . . . .	3-9
3.2.7 More Efficient Two-Sided Butt Welds . . . . .	3-9
3.2.8 Single Side Butt Welds . . . . .	3-10

## TABLE OF CONTENTS (Continued)

		Page
3.2.9	Welding Sequence . . . . .	3-10
3.2.10	Erection Joint Fitting . . . . .	3-10
3.2.11	Weld Type Sequencing . . . . .	3-10
3.2.12	Lifting and Turning . . . . .	3-10
3.2.13	Accessibility . . . . .	3-10
3.2.14	Oil Stops . . . . .	3-11
3.2.15	Two-Sided Butt Welds without Backgouging . .	3-11
3.2.16	Tolerances . . . . .	3-11
3.2.17	Automatic Welding Requirements . . . . .	3-11
3.2.18	Gas Metallic Arc Welding . . . . .	3-12
3.2.19	Weld Joint Preparation . . . . .	3-12
3.2.20	Weld Joint Integrity . . . . .	3-12
3.2.21	Welding Capability . . . . .	3-12
3.2.22	Aluminum Welding Technology . . . . .	3-13
3.2.23	Recommendation . . . . .	3-13
3.2.24	Wiggler . . . . .	3-13
3.3	Recommendations for Future Producibility Study Areas . . . . .	3-13
4 /	REFERENCES . . . . .	4-1
APPENDIX		
A	Hull Structures Fabrication TPP002B . . . . .	A-1
B	Panel and Element Structural Test Program Final Report . . . . .	B-1
C	Alternate Stiffener Configurations . . . . .	C-1
D	Alternate Inner Bottom Floor Configurations .	D-1

## LIST OF ILLUSTRATIONS

Figure		Page
2.1	SES-100A Before and After Modification . . . . .	2-4
2.2	SES-100A1 Structural Breakdown . . . . .	2-5
2.3	SES-100A1-01 Assembly or Shipping Crib . . . . .	2-6
2.4	SES-100A1-06 Assembly . . . . .	2-6
2.5	Ninety Degree Butt Joint with High Strain Concentration	2-14
2.6	Typical Longitudinal Bow Framing . . . . .	2-15
2.7	Proper Radiographic Film Location . . . . .	2-18
2.8	Looking Aft at Mini-Module Longitudinal Bulkhead Showing 2nd, 3rd, and Wet Decks. . . . .	2-19
2.9	Looking Outboard at Mini-Module Longitudinal Bulkhead . . . . .	2-20
2.10	Deck Structure Interface Flatbar . . . . .	2-27
2.11	Typical Deck Flatbar Penetration Through Framing Member . . . . .	2-27
2.12	Tee Stringer (Baseline) . . . . .	2-35
2.13	"I" Beam Truss (Baseline) . . . . .	2-35
2.14	Straight Flat Bar Stringer . . . . .	2-36
2.15	Haunched Flat Bar Stringer . . . . .	2-36
2.16	Haunched Tee Stringer . . . . .	2-37
2.17	Tube Truss (Looking Forward) . . . . .	2-39
2.18	Stiffened Plate Girder (Looking Forward) . . . . .	2-39
2.19	Standard Transverse Frame Heights . . . . .	2-40
2.20	Rigid Light Weight Haunched Flatbar Stringer Manu- facturing Layout . . . . .	2-42
3.1	Longitudinal Bulkhead and Deck (with Framing) inter- section Utilizing Cruciform Extrusion . . . . .	3-1
3.2	Deck Framing Structure Utilizing Interface Tee . . . . .	3-4
3.3	Tee to Tee Joint Connection with Tee Flanges Sniped . .	3-5
3.4	Typical Truss Joint with Flanges of I-Section Sniped . .	3-5
3.5	Typical Frame with Tight and Non-Tight Penetrations. . .	3-6

# LIST OF TABLES

Table Number		Page
2-1	Factor of Safety Requirements . . . . .	2-31
2-2	Design Load Conditions . . . . .	2-32
2-3	Minimum Mechanical Properties for Welded 5456 Aluminum Alloy . . . . .	2-33
2-4	Alternate Stiffener Configuration Weight Impact . . . .	2-44
2-5	Alternate Stiffener Configuration Comparative Direct Labor Hour Estimates . . . . .	2-44
2-6	Alternate Inner Bottom Floor Configuration Weight Impact . . . . .	2-45
2-7	Alternate Inner Bottom Floor Configuration Comparative Comparative Direct Labor Hour Estimates . . . . .	2-46

APPENDIX B / ASSEMBLY WELDING AND BONDING PROCEDURES

This appendix contains the welding and bonding procedures used in fabrication of the 3KSES panel and element structural test assemblies. The welding procedures were developed generally in accordance with the requirements for development of weld procedures for 3KSES production welds. The adhesive bonding procedures were designed for use without special jigs or fixtures in order to provide a procedure suitable for use as an in-service repair by operating personnel.

TER073

TABLE OF CONTENTS

	page
Tabulation of Butt Weld Procedures.....	B-455
Tabulation of Fillet Weld Procedures.....	B-456
Adhesive Bonding Procedures.....	B-457

Butt Weld Procedures for Structural Test Program.

Metal Thickness (Inches)	Weld Position (1)	Weld (3) Passes	Electrode Diameter (in)	Welding Equipment (2)	Arc Travel (IPM)	Direct Current (Amps)	Arc Voltage (Volts)	Shielding Gas	Gas Flow Rate (CFH)
.160-.180	V	1	.047	S/A	NA	100-130	20-22	Argon	40-50
.160-.200	F	1	.063	A	35-46	240-270	20-24	Argon	40-50
.250	V	1	.047	S/A	NA	120-155	22-24	Argon	40-50
.250	V	IF IR	.047	S/A	NA	130-150	21-23	Argon	40-50
.250-.281	F	1	.063	A	21-24	285-320	18-25	Argon	40-50
.344-.375	F	1	.063	A	11-18	320-325	21-28	Argon	40-50
.160	F	1	.047	M	24-26	135-165	21-23	Argon	40-50
.250	F	1	.047	M	21-23	205-235	25-27	Argon	40-50
.313	F	IF IR	.047	M	20-22	170-200	23-25	Argon	40-50
.313	F	1	.063	M	17-19	225-255	24-26	Argon	40-50
.344	F	2	.047	M	19-21	190-220	23-25	Argon	40-50
.344	V	2	.047	S/A	NA	160-190	23-25	Argon	40-50
.375	V	2	.047	S/A	NA	145-175	22-24	Argon	40-50
.375	F	2	.047	M	18-20	195-225	24-26	Argon	40-50
.375	F	2	.063	M	18-23	220-275	25-27	Argon	40-50
.500	V	2F 2R	.063	S/A	NA	170-200	22-25	Argon	40-50
.500	F	2	.063	M	17-19	245-275	25-27	Argon	40-50
.750	F	2F 2R	.063	M	17-19	260-290	26-28	Argon	40-50

NOTES: 1. F=Flat; V=Vertical

2. S/A= Semi-automatic; A=Automatic; M=Machine (Pacer <sup>TM</sup>)

3. F = Face; R = Root



## Fillet Weld Procedures for Structural Test Program.

Metal Thickness		Weld Position (1)	Weld Passes Per Fillet	Electrode Diameter	Welding Equip. (2)	Arc Travel (IPM)	Direct Current (Amps)	Arc Voltage (Volts)	Shielding Gas	Gas Flow Rate (CFH)
Plate	Web									
.160	.160	H	1	.047	M	53-55	215-245	21-23	Argon	25-35
.160	.160	V	1	.047	M	31-33	150-180	19-21	Argon	25-35
.160	.160 <sup>(3)</sup>	V	1	.047	M	27-29	150-180	19-21	Argon	25-35
.160	.160-.200	H	1	.047	S/A	NA	170-200	22-24	Argon	40-45
.180	.180	H	1	.047	M	48-50	225-245	22-24	Argon	25-35
.200	.200-.375	H	1	.063	M	43-45	250-280	22-24	Argon	25-35
.200	.250	H	1	.047	S/A	NA	190-220	23-25	Argon	40-45
.200	.281	H	1	.047	S/A	NA	195-225	24-26	Argon	40-45
.250	.250	H	1	.047	S/A	NA	200-230	23-25	Argon	40-45
.250	.250	V	1	.047	S/A	NA	165-195	23-25	Argon	40-50
.250	.281	V	1	.047	S/A	NA	180-210	23-25	Argon	40-50
.250	.281-.313	H	1	.063	M	31-33	260-280	24-26	Argon	25-35
.281	.281	V	1	.063	M	17-19	180-210	22-24	Argon	25-35
.281	.281 <sup>(3)</sup>	H	1	.063	M	24-26	305-330	27-29	Argon	25-35
.313	.313	H	1	.063	M	24-26	305-325	27-29	Argon	25-35
.313	.313 <sup>(3)</sup>	V	1	.063	M	17-19	200-230	24-26	Argon	25-35
.313	.313	V	1	.063	M	17-19	200-230	24-26	Argon	25-35
.344	.375	H	1	.063	S/A	NA	255-285	25-27	Argon	25-35
.344	.375	H	1	.063	M	17-19	290-320	28-30	Argon	25-35
.500	.250	H	1	.047	S/A	NA	220-250	25-27	Argon	40-50
.500	.344	H	1	.063	S/A	NA	235-265	25-27	Argon	40-50
.750	.750 <sup>(4)</sup>	H	2	.063	M	18-20	340-370	29-31	[Argon (60)]	40-50
				.063	S/A	NA	295-325	29-31	[Helium (40)]	40-50

NOTES: 1. H=Horizontal; V=Vertical  
 2. M=Machine (Wiggler<sup>TM</sup>); S/A=Semi-automatic  
 3. Full Penetration Tee Joints  
 4. First pass on each side with Machine (Wiggler<sup>TM</sup>); Remaining Passes with Semi-Automatic equipment.

ADHESIVE BONDING PROCEDURES  
FOR WELD REINFORCEMENT LAMINATED DOUBLERS  
ON FABRICATION ASSY TT802024-57  
(TEST SPECIMENS TT802022-205-F1, -F2, & -F3)

- References: a) RMI Drawing TT802024  
b) RMI Drawing TT802022  
c) RMI Manufacturing Plan for Comp. No. TT802024-57

The procedures outlined below have been established for use in preparing and adhesive bonding doubler laminations over designated weld joints in Assy. No. TT802024-57. Two separate procedures and bond systems have been defined with specific application requirements in order to acquire comparative data.

The procedures outlined below supercede flag notes 25 and 26 on the reference (a) drawing. Accomplishment of these procedures also fulfills the requirements of Steps 600 and 610 of the reference (c) planning package.

PROCEDURE FOR ASSY TT802022-205-F1 and -F2

- 1) Accumulate weld assemblies identified "022-205-F1" and "022-205-F2" plus 8 each doubler details TT802024-151 and -153 plus 2 each doubler details TT802024-155, -157 and -159.
- 2) Process clean weld assemblies and details of Step 1 per attached Procedure SVBP-01.
- 3) Apply Hysol primer EA-9203 per attached Procedure SVBP-02 to all surfaces to be bonded.
- 4) Apply Hysol adhesive EA-9309.1 and bond doubler laminates in positions designated by reference (a) using attached Procedure SVBP-03.

PROCEDURE FOR ASSY TT802022-205-F3

- 1) Accumulate weld assembly identified "022-205-F3" plus 4 each doubler details TT802024-151 and -153 plus 1 each doubler details TT802024-155, -157 and -159.
- 2) Process clean weld assembly and details of Step 1 per attached Procedure SVBP-01.
- 3) Apply American Cyanamid/Bloomingtondale primer BR-127 per attached Procedure SVBP-04 to all surfaces to be bonded.
- 4) Apply Hysol adhesive EA-9314 and bond doubler laminates in positions designated by reference (a) using attached Procedure SVBP-05.
- 5) Sign and date steps 600, 610, and 620 of reference (c) attached to certify completion of specified tasks.

Attachments: Procedures SVBP-01 through SVBP-05.

PROCEDURE SVBP-01

PROCESS CLEANING FOR ADHESIVE BONDING 5456 ALUMINUM ALLOY

CAUTION: Use appropriate precautions in preparing and applying the hazardous chemical solutions required in this cleaning process.

NOTE: All process cleaned parts prepared for adhesive bonding must be handled with clean white gloves only. Handling bond faying surfaces must be kept to an absolute minimum.

- 1) Degrease all surfaces of details and entire sides of large assemblies on which bonding will be performed. Degrease using clean white cotton rags or cheesecloth thoroughly dampened with aliphatic naptha. Wipe surfaces completely dry with clean cloths.
- 2) Using "Scotch-Brite" pads and water, thoroughly abrade surface areas to be bonded until all oxides and discolorations have been removed. Abraded areas should extend approximately 3/4 inch beyond periphery of bond faying surfaces.
- 3) Hand wipe abraded surfaces with clean cheesecloth saturated with alkaline cleaner (GMC 528 or equivalent) to remove abrasive materials and fingerprint contamination. If alkaline cleaner is not available, aliphatic naptha may be substituted. After using aliphatic naptha, wipe surfaces completely dry with clean cloths.
- 4) Spray rinse with room temperature demineralized water to remove all cleaner residue. Inspect for water break-free surfaces at areas to be bonded. (A water break-free surface maintains a continuous demineralized water film on a vertical surface for at least 15 seconds.) Areas to be bonded that do not exhibit the water break-free surface require reprocessing. Although a spray rinse is preferred, hand wiping using cheesecloth thoroughly saturated with demineralized water is an acceptable alternate rinse method. The water break-free surface must still be achieved if hand wiping is employed. Remove

## PROCEDURE SVBP-01 (Continued)

excess water by wiping with clean cloths.

- 5) Acid etch each area to be bonded by applying a coating of the following paste:

- a) Demineralized water 350 grams
- b) Sulphuric acid 125 grams
- c) Sodium dichromate 35 grams
- d) Barium sulphate 750 grams

Allow paste to remain in place 20 minutes. At the end of this period, remove paste by wiping. Before any residual paste can dry, thoroughly rinse entire part in the manner described in step (4) above to remove all residue.

- 6) Dry cleaned parts completely in air or oven (150°F maximum temperature).
- 7) Protect cleaned parts from contamination prior to the application of adhesive primer by wrapping parts or suitably covering cleaned surfaces with clean Kraft paper.

NOTE: Adhesive primer must be applied to cleaned bond area surfaces within 3 hours after cleaning.

PROCEDURE SVBP-02  
EA-9203 PRIMER APPLICATION

(See manufacturer's instruction sheets for additional information and cautions.)

- 1) Apply primer to designated part bond areas within 3 hours after parts have been cleaned.
- 2) Handle all cleaned parts prepared for bonding with clean white cotton gloves only. Handling of bond area faying surfaces must be kept to an absolute minimum.
- 3) Use EA-9203 primer as supplied. Apply thin coating of primer by spraying or brushing to each faying surface to be bonded. Apply primer only sufficient to wet the adherend surface.
- 4) Before primer cures, remove any excess by wiping with a clean cloth saturated with denatured alcohol.
- 5) Dry primer coated surfaces a minimum of one hour at 75°F.
- 6) Protect primed parts from contamination prior to bonding by wrapping parts or suitably covering primed surfaces with clean Kraft paper.

PROCEDURE SVBP-03

EA-9309.1 ADHESIVE BONDING

(See manufacturer's instructions for additional information and cautions.)

- 1) Handle all primer-coated parts preparatory to and during bonding with clean white cotton gloves only to protect bond faying surfaces from contamination and to minimize staining of the hands. Handling of bond faying surfaces must be kept to an absolute minimum.
- 2) Using clean cheesecloth, double solvent wipe each primed bond faying surface with aliphatic naptha. Remove residual solvent by wiping with clean dry cheesecloth, and allow surface to thoroughly dry. Fan forced air may be used if necessary to accelerate the drying process.
- 3) Combine adhesive components -100 parts A with 20 parts B by weight - and mix thoroughly. Small quantities of Cab-O-Sil (10 percent maximum by volume) may be added to adhesive during mixing to increase viscosity for ease of handling. Pot life for a one pound mass of mixed adhesive at 75°F is approximately 30 minutes.
- 4) Spread a thin layer of mixed adhesive on each surface to be bonded using a spatula or knife-type spreader. Apply sufficient adhesive to thoroughly fill any gaps and form a void-free bond line when parts are assembled. Assemble parts in a manner to avoid entrapment of air pockets within the bond line. Apply pressure (2 to 10 psig) by means of clamps, weights or vacuum to establish and maintain intimate contact until adhesive has cured. Ascertain that parts remain in correct position and alignment after pressure has been applied.
- 5) After bond pressure is applied, remove excess uncured adhesive by scraping and/or wiping with a clean cloth lightly saturated with denatured alcohol. Do not use more alcohol than absolutely necessary. Adhesive expelled from the bond line and/or extending more than 1/2 inch beyond the edge of the bonded detail is considered excess.

TER073

PROCEDURE SVBP-03 (Continued)

- 6) Cure adhesive under full bond pressure for a minimum of 24 hours at a room temperature of 75°F or higher before handling. Parts may be carefully handled after this initial cure period, but full cure requires 7 days at room temperatures of 75°F or higher.



PROCEDURE SVBP-04  
BR-127 PRIMER APPLICATION

(See manufacturer's instruction sheets for additional information.)

NOTE: BR-127 Primer is stored at 0°F or below. Primer removed from the freezer and allowed to warm cannot be returned to the freezer. Primer not used within 96 hours after removal from freezer must be discarded.

- 1) Apply primer to designated part bond areas within 3 hours after parts have been cleaned.
- 2) Handle all cleaned parts prepared for bonding with clean white cotton gloves only. Handling of bond area faying surfaces must be kept to an absolute minimum.
- 3) Mark date and time on primer container when removed from freezer. Allow primer material to warm to room temperature prior to opening container. Thoroughly mix primer before application and frequently agitate primer during application since rapid settling occurs.
- 4) Apply BR-127 primer to each faying surface to be bonded. Apply by spray or brush coating to produce a dry primer coating thickness between 0.0001 and 0.0005 inch.
- 5) Cure primer by air drying at least 60 minutes at ambient temperature (65°F or higher) followed by exposure to heat with a minimum time of 30 minutes at a part temperature of  $160^{\circ} \pm 15^{\circ}\text{F}$ . To test for full cure, solvent wipe primer with acetone; wiper discoloration indicates incomplete cure.
- 6) Protect primed parts from contamination prior to bonding by wrapping parts or suitably covering primed bond surfaces with clean Kraft paper.

PROCEDURE SVBP-05  
EA-9314 ADHESIVE BONDING

(See manufacturer's instruction sheets for additional information and cautions.)

NOTE: EA-9314 adhesive, when mixed, is very thixotropic and will not sag or slump on vertical surfaces.

CAUTION: EA-9314 adhesive contains asbestos fibers. Suitable breathing protection must be worn when grinding or sanding cured adhesive.

- 1) Handle all primer-coated parts preparatory to and during bonding with clean white cotton gloves only to protect bond faying surfaces from contamination and to minimize staining of the hands. Handling of bond faying surfaces must be kept to an absolute minimum.
- 2) Using clean cheesecloth, double solvent wipe each primed bond faying surface with aliphatic naptha. Remove any residual solvent by wiping with clean dry cheesecloth, and allow surface to thoroughly dry. Fan forced air may be used if necessary to accelerate the drying process.
- 3) Combine adhesive components - 2 parts A with 1 part B by weight or 3 parts A with 1 part B by volume - and mix thoroughly. Pot life for a one pound mass of mixed adhesive at 75°F is approximately 40 minutes.
- 4) Spread a thin layer of mixed adhesive on each surface to be bonded using a spatula or knife-type spreader. Apply sufficient adhesive to thoroughly fill any gaps and form a void-free bond line when parts are assembled. Assemble parts in a manner to avoid entrapment of airpockets within the bond line. Apply pressure (2 to 15 psig) by means of clamps, weights, or vacuum to establish and maintain intimate contact until adhesive has cured. Ascertain that parts remain in correct position and alignment after pressure has been applied.

PROCEDURE SVBP-05 (Continued)

- 5) After bond pressure is applied, remove excess uncured adhesive by scraping and/or wiping with a clean cloth lightly saturated with denatured alcohol. Do not use more alcohol than absolutely necessary. Adhesive expelled from the bond line and/or extending more than 1/2 inch beyond the edge of the bonded detail is considered excess.
- 6) Cure adhesive under full bond pressure for a minimum of 36 hours at a room temperature between 65° and 85 F before handling.

APPENDIX C / WELDED PLATE SPECIMEN TABULATED DATA

TABLE OF CONTENTS

	Page
1/	
STATIC TEST DATA . . . . .	B-469
1.1 Specimen Dimensions . . . . .	B-469
1.2 Test Data Sheets. . . . .	B-474
1.3 Mismatch and Misalignment Specimen Data . . .	B-479
2/	
FATIGUE TEST DATA. . . . .	B-491
2.1 Specimen Dimensions . . . . .	B-491
2.2 Test Data Sheets. . . . .	B-503

## LIST OF ILLUSTRATIONS

Figure Number		Page
C-1	Welded Plate Specimen Pretest Measurement Locations...	B-470
C-2	Static Tensile Test Load-Strain Plots - Specimen No. TT802016-25-1.....	B-481
C-3	Static Tensile Test Load-Strain Plots - Specimen No. TT802016-27-2.....	B-483
C-4	Static Tensile Test Load-Strain Plots - Specimen No. TT802016-33-2.....	B-485
C-5	Static Tensile Test Load-Strain Plots - Specimen No. TT802016-123-1.....	B-487
C-6	Static Tensile Test Load-Strain Plots - Specimen No. TT802016-127-1.....	B-489
C-7	Welded Plate Fatigue Test Specimen Pretest Measurement Locations.....	B-492

## LIST OF TABLES

Table Number		Page
C-1	Welded Plate Specimen Pretest Measurements.....	B-471
C-2	Static Tensile Test Strain Data - Specimen No. TT802016-25-1.....	B-480
C-3	Static Tensile Test Strain Data - Specimen No. TT802016-27-2.....	B-482
C-4	Static Tensile Test Strain Data - Specimen No. TT802016-33-2.....	B-484
C-5	Static Tensile Test Strain Data - Specimen No. TT802016-123-1.....	B-486
C-6	Static Tensile Test Strain Data - Specimen No. TT802016-127-1.....	B-488
C-7	Average Strain Comparisons for Mismatched and Misaligned Welded Plate Specimens.....	B-490
C-8	Welded Plate Fatigue Test Specimen Pretest Measurements.....	B-498

1 / STATIC TEST DATA

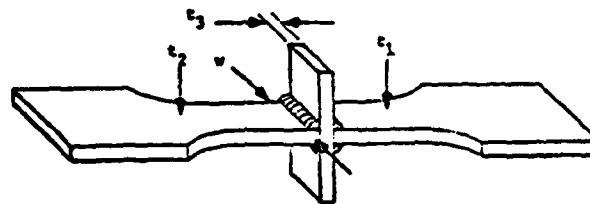
This section contains various detailed data pertinent to the welded plate coupon static tensile tests.

1.1 SPECIMEN DIMENSIONS

Specimen pretest measurement locations and the actual test section dimensions for each static test specimen are presented in Figure C-1 and Table C-1, respectively.



(a) Transverse Butt Joint Specimen



(b) Transverse Cruciform Joint Specimen

Figure C-1. Welded Plate Specimen Pretest Measurement Locations

Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 1 of 3)

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	△ OFFSET A	△ OFFSET B
Butt Jt.	016-3-1	.187	.309		1.407	1.400	1.439		
	-3-2	.187	.307		1.405	1.406	1.434		
	-7-1	.311	.315		1.502	1.503	1.503	.080	
	-7-2	.3115	.315		1.505	1.505	1.505	.080	
	-9-1	.125	.3125		1.503	1.505	1.506	.080	
	-9-2	.126	.3115		1.501	1.501	1.502	.080	
	-21-1	.314	.316		1.504	1.505	1.505		
	-21-2	.315	.316		1.504	1.504	1.504		
	-21-3	.311	.312		1.506	1.505	1.504		
	-25-1	.312	.313		1.503	1.502	1.502	.060	
	-25-2	.305	.313		1.507	1.506	1.507	.080	
	-27-1	.188	.314		1.504	1.505	1.503	.180	.065
	-27-2	.187	.314		1.504	1.504	1.504	.190	.065
	-33-1	.302	.310		1.503	1.503	1.504		
	-33-2	.312	.311		1.493	1.493	1.494		
	-43-1	.3145	.3145		1.506	1.504	1.506	.060	
	-43-2	.3145	.3145		1.506	1.506	1.506	.060	
	-47-1	.3135	.3125		1.506	1.507	1.507	.065	
	-47-2	.3125	.312		1.500	1.500	1.499	.065	
	-53-1	.3145	.3145		1.506	1.506	1.506		
	-53-2	.3145	.3145		1.507	1.507	1.507		
	-53-3	.3155	.3155		1.506	1.506	1.506		
	-119-1	.3165	.313		1.502	1.501	1.501		
	-119-2	.3115	.316		1.506	1.507	1.507		
	-123-1	.315	.315		1.502	1.499	1.499	.160	
	016-123-2	.315	.317		1.503	1.503	1.503	.170	
	016-9-3X	.187	.3125		1.503	1.503	1.502	.080	.180
Butt Jt.	016-9-4X	.187	.3125		1.499	1.499	1.499	.080	.190

NOTE: Reference Figure C-1  
for measurement locations.

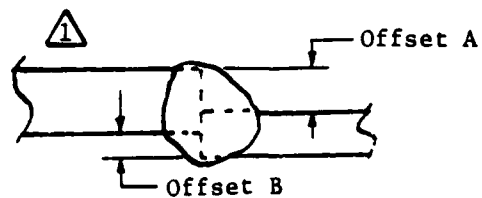


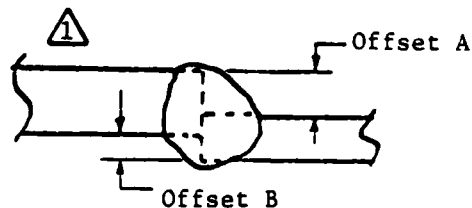


Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 2 of 3)

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	△ OFFSET A	△ OFFSET B
Butt Jt.	016-127-1	.378	.505		1.507	1.523	1.524	.165	.250
	-127-2	.378	.505		1.507	1.505	1.508	.160	.290
	-135-1	.3130	.3130		1.502	1.502	1.502		
	-135-2	.3115	.3115		1.506	1.506	1.506		
Butt Jt.	-135-3	.3105	.3105		1.511	1.511	1.511		
Cruciform Jt.	-201-1	.183	.185	.185	1.506	1.506	1.506		
	-201-2	.185	.184	.185	1.507	1.506	1.506		
	-201-3	.185	.184	.185	1.502	1.502	1.502		
	-205-1	.5055	.505	.505	1.509	1.510	1.509		
	-205-2	.5055	.505	.505	1.499	1.499	1.498		
	-205-3	.506	.505	.505	1.505	1.506	1.505		
	-209-1	.760	.760	.761	1.511	1.512	1.510		
	-209-2	.760	.761	.761	1.506	1.507	1.506		
Cruciform Jt.	-209-3	.760	.761	.759	1.511	1.512	1.511		
Butt Jt.	-301-1	.195	.194		1.508	1.509	1.508		
	-301-2	.193	.192		1.505	1.507	1.506		
	-301-3	.194	.194		1.506	1.507	1.507		
	-303-1	.194	.194		1.509	1.509	1.509		
	-303-2	.193	.193		1.508	1.508	1.508		
	-303-3	.193	.193		1.509	1.509	1.509		
	-305-1	.1945	.1945		1.504	1.504	1.504		
	-305-2	.1950	.1950		1.505	1.503	1.504		
	-305-3	.1950	.1950		1.504	1.505	1.505		
	-307-1	.1945	.1955		1.506	1.507	1.507		
	-307-2	.1935	.1945		1.503	1.503	1.504		
Butt Jt.	016 -307-3	.1950	.1942		1.510	1.509	1.509		

NOTE: Reference Figure C-1  
for measurement locations.



**Table C-1. Welded Plate Specimen Pretest Measurements (Sheet 3 of 3)**

(All dimensions in inches)

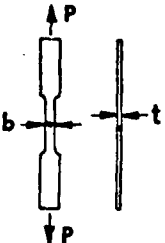
[illegible]

**NOTE: Reference Figure C-1 for measurement locations.**

1.2 TEST DATA SHEETS

Copies of the test laboratory data sheets summarizing the recorded data for all welded plate specimen static tensile tests are provided on the following five pages. Minor additions and deletions have been made where necessary for clarification.

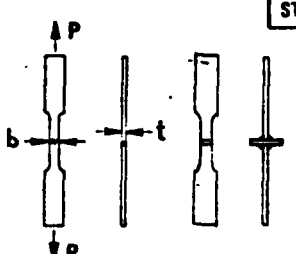
TER073

TIR TG. NO. <u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>ASTM E-8</u>																																																																																																																																																																																																																																																																																							
WORK ORDER <u>444-11-0-40</u>		SPECIMEN DATE NO.																																																																																																																																																																																																																																																																																							
REQUESTER <u>F. W. P. R.</u>	TEST REPORT																																																																																																																																																																																																																																																																																								
STATIC TENSION PLATE/SHEET																																																																																																																																																																																																																																																																																									
	TEST TEMP <u>ROOM</u> °F BASE MAT'L. <u>5456 AL.</u>  GRAIN DIRECTION <u>N/A</u>																																																																																																																																																																																																																																																																																								
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th rowspan="2">SPECIMEN NO.</th> <th rowspan="2">b (in)</th> <th rowspan="2">t (in)</th> <th rowspan="2">A B B = t (in) 2</th> <th colspan="2">YIELD</th> <th colspan="2">ULTIMATE</th> <th rowspan="2">% ELONG GL 2 12</th> <th rowspan="2">TYPE OF FAILURE</th> <th rowspan="2">OFF-SET</th> </tr> <tr> <th>LOAD (lbs.)</th> <th>ksi</th> <th>LOAD (lbs.)</th> <th>ksi</th> </tr> </thead> <tbody> <tr> <td>016-3-1</td> <td>1.499</td> <td>1.87</td> <td>.280</td> <td>7250</td> <td>22.4</td> <td>13,000</td> <td>41.4</td> <td>8.5</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>-3-2</td> <td>1.496</td> <td>1.87</td> <td>.280</td> <td>8050</td> <td>23.8</td> <td>12,850</td> <td>43.9</td> <td>7.0</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>016-7-1</td> <td>1.503</td> <td>3.11</td> <td>.467</td> <td>9250</td> <td>21.1</td> <td>19,950</td> <td>42.7</td> <td>3.5</td> <td>EDGE OF WELD</td> <td>.080</td> </tr> <tr> <td>-7-2</td> <td>1.505</td> <td>3.115</td> <td>.469</td> <td>9200</td> <td>19.6</td> <td>19,900</td> <td>42.2</td> <td>8.5</td> <td>EDGE OF WELD</td> <td>.080</td> </tr> <tr> <td>016-9-1</td> <td>1.505</td> <td>1.85</td> <td>.278</td> <td>5900</td> <td>20.9</td> <td>11,000</td> <td>39.6</td> <td>7.0</td> <td>EDGE OF WELD</td> <td>.030</td> </tr> <tr> <td>-9-2</td> <td>1.501</td> <td>1.86</td> <td>.279</td> <td>5250</td> <td>21.0</td> <td>10,000</td> <td>38.0</td> <td>6.7</td> <td>EDGE OF WELD</td> <td>.030</td> </tr> <tr> <td>016-21-1</td> <td>1.505</td> <td>3.14</td> <td>.472</td> <td>15125</td> <td>32.0</td> <td>22,500</td> <td>47.6</td> <td>10.7 3.8</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>-21-2</td> <td>1.504</td> <td>3.15</td> <td>.473</td> <td>15400</td> <td>32.5</td> <td>22,650</td> <td>47.8</td> <td>11.3 4.3</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>-21-3</td> <td>1.505</td> <td>3.11</td> <td>.469</td> <td>15300</td> <td>32.7</td> <td>22,500</td> <td>48.1</td> <td>10.5 4.0</td> <td>WELD</td> <td></td> </tr> <tr> <td>016-25-1</td> <td>1.502</td> <td>3.13</td> <td>.468</td> <td>—</td> <td>—</td> <td>19,850</td> <td>42.4</td> <td></td> <td>WELD</td> <td>.050</td> </tr> <tr> <td>-25-2</td> <td>1.500</td> <td>3.13</td> <td>.471</td> <td>9050</td> <td>19.2</td> <td>19,950</td> <td>42.3</td> <td>13.2</td> <td>WELD</td> <td>.080</td> </tr> <tr> <td>016-27-1</td> <td>1.504</td> <td>1.88</td> <td>.282</td> <td>6550</td> <td>23.2</td> <td>11,350</td> <td>40.1</td> <td>6.1</td> <td>EDGE OF WELD</td> <td>.120-.065</td> </tr> <tr> <td>-27-2</td> <td>1.504</td> <td>1.87</td> <td>.281</td> <td>—</td> <td>—</td> <td>11,650</td> <td>41.5</td> <td></td> <td>EDGE OF WELD</td> <td>.065-.190</td> </tr> <tr> <td>016-33-1</td> <td>1.503</td> <td>3.10</td> <td>.465</td> <td>9700</td> <td>20.8</td> <td>20,350</td> <td>43.7</td> <td>9.9</td> <td>WELD</td> <td></td> </tr> <tr> <td>-33-2</td> <td>1.493</td> <td>3.11</td> <td>.464</td> <td>—</td> <td>—</td> <td>21,200</td> <td>45.7</td> <td></td> <td>WELD</td> <td></td> </tr> <tr> <td>016-43-1</td> <td>1.504</td> <td>3.14</td> <td>.473</td> <td>9500</td> <td>20.1</td> <td>21,400</td> <td>45.2</td> <td>12.9</td> <td>WELD</td> <td>.060</td> </tr> <tr> <td>-43-2</td> <td>1.506</td> <td>3.145</td> <td>.473</td> <td>9900</td> <td>20.9</td> <td>20,850</td> <td>44.0</td> <td>12.1</td> <td>WELD</td> <td>.060</td> </tr> <tr> <td>016-47-1</td> <td>1.506</td> <td>3.125</td> <td>.471</td> <td>9950</td> <td>21.1</td> <td>20,300</td> <td>43.1</td> <td>2.5</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>-47-2</td> <td>1.500</td> <td>3.12</td> <td>.468</td> <td>10,050</td> <td>21.5</td> <td>20,000</td> <td>42.7</td> <td>8.5</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>016-53-1</td> <td>1.506</td> <td>3.145</td> <td>.472</td> <td>11,500</td> <td>30.6</td> <td>22,800</td> <td>48.1</td> <td>16.5 6.7</td> <td>WELD</td> <td></td> </tr> <tr> <td>-53-2</td> <td>1.507</td> <td>3.145</td> <td>.474</td> <td>14,600</td> <td>30.8</td> <td>23,150</td> <td>46.7</td> <td>13.3 5.3</td> <td>WELD</td> <td></td> </tr> <tr> <td>-53-3</td> <td>1.506</td> <td>3.155</td> <td>.475</td> <td>14,750</td> <td>31.0</td> <td>21,300</td> <td>44.8</td> <td>10.3 3.9</td> <td>EDGE OF WELD</td> <td></td> </tr> <tr> <td>016-119-1</td> <td>1.501</td> <td>3.12</td> <td>.468</td> <td>16,450</td> <td>35.9</td> <td>25,200</td> <td>53.6</td> <td>13.1 5.8</td> <td>BASE METAL</td> <td></td> </tr> <tr> <td>-119-2</td> <td>1.507</td> <td>3.115</td> <td>.464</td> <td>16,250</td> <td>34.6</td> <td>24,950</td> <td>52.2</td> <td>14.7 9.5</td> <td>BASE METAL</td> <td></td> </tr> </tbody> </table>			SPECIMEN NO.	b (in)	t (in)	A B B = t (in) 2	YIELD		ULTIMATE		% ELONG GL 2 12	TYPE OF FAILURE	OFF-SET	LOAD (lbs.)	ksi	LOAD (lbs.)	ksi	016-3-1	1.499	1.87	.280	7250	22.4	13,000	41.4	8.5	EDGE OF WELD		-3-2	1.496	1.87	.280	8050	23.8	12,850	43.9	7.0	EDGE OF WELD		016-7-1	1.503	3.11	.467	9250	21.1	19,950	42.7	3.5	EDGE OF WELD	.080	-7-2	1.505	3.115	.469	9200	19.6	19,900	42.2	8.5	EDGE OF WELD	.080	016-9-1	1.505	1.85	.278	5900	20.9	11,000	39.6	7.0	EDGE OF WELD	.030	-9-2	1.501	1.86	.279	5250	21.0	10,000	38.0	6.7	EDGE OF WELD	.030	016-21-1	1.505	3.14	.472	15125	32.0	22,500	47.6	10.7 3.8	EDGE OF WELD		-21-2	1.504	3.15	.473	15400	32.5	22,650	47.8	11.3 4.3	EDGE OF WELD		-21-3	1.505	3.11	.469	15300	32.7	22,500	48.1	10.5 4.0	WELD		016-25-1	1.502	3.13	.468	—	—	19,850	42.4		WELD	.050	-25-2	1.500	3.13	.471	9050	19.2	19,950	42.3	13.2	WELD	.080	016-27-1	1.504	1.88	.282	6550	23.2	11,350	40.1	6.1	EDGE OF WELD	.120-.065	-27-2	1.504	1.87	.281	—	—	11,650	41.5		EDGE OF WELD	.065-.190	016-33-1	1.503	3.10	.465	9700	20.8	20,350	43.7	9.9	WELD		-33-2	1.493	3.11	.464	—	—	21,200	45.7		WELD		016-43-1	1.504	3.14	.473	9500	20.1	21,400	45.2	12.9	WELD	.060	-43-2	1.506	3.145	.473	9900	20.9	20,850	44.0	12.1	WELD	.060	016-47-1	1.506	3.125	.471	9950	21.1	20,300	43.1	2.5	EDGE OF WELD		-47-2	1.500	3.12	.468	10,050	21.5	20,000	42.7	8.5	EDGE OF WELD		016-53-1	1.506	3.145	.472	11,500	30.6	22,800	48.1	16.5 6.7	WELD		-53-2	1.507	3.145	.474	14,600	30.8	23,150	46.7	13.3 5.3	WELD		-53-3	1.506	3.155	.475	14,750	31.0	21,300	44.8	10.3 3.9	EDGE OF WELD		016-119-1	1.501	3.12	.468	16,450	35.9	25,200	53.6	13.1 5.8	BASE METAL		-119-2	1.507	3.115	.464	16,250	34.6	24,950	52.2	14.7 9.5	BASE METAL	
SPECIMEN NO.	b (in)	t (in)					A B B = t (in) 2	YIELD		ULTIMATE				% ELONG GL 2 12	TYPE OF FAILURE	OFF-SET																																																																																																																																																																																																																																																																									
			LOAD (lbs.)	ksi	LOAD (lbs.)	ksi																																																																																																																																																																																																																																																																																			
016-3-1	1.499	1.87	.280	7250	22.4	13,000	41.4	8.5	EDGE OF WELD																																																																																																																																																																																																																																																																																
-3-2	1.496	1.87	.280	8050	23.8	12,850	43.9	7.0	EDGE OF WELD																																																																																																																																																																																																																																																																																
016-7-1	1.503	3.11	.467	9250	21.1	19,950	42.7	3.5	EDGE OF WELD	.080																																																																																																																																																																																																																																																																															
-7-2	1.505	3.115	.469	9200	19.6	19,900	42.2	8.5	EDGE OF WELD	.080																																																																																																																																																																																																																																																																															
016-9-1	1.505	1.85	.278	5900	20.9	11,000	39.6	7.0	EDGE OF WELD	.030																																																																																																																																																																																																																																																																															
-9-2	1.501	1.86	.279	5250	21.0	10,000	38.0	6.7	EDGE OF WELD	.030																																																																																																																																																																																																																																																																															
016-21-1	1.505	3.14	.472	15125	32.0	22,500	47.6	10.7 3.8	EDGE OF WELD																																																																																																																																																																																																																																																																																
-21-2	1.504	3.15	.473	15400	32.5	22,650	47.8	11.3 4.3	EDGE OF WELD																																																																																																																																																																																																																																																																																
-21-3	1.505	3.11	.469	15300	32.7	22,500	48.1	10.5 4.0	WELD																																																																																																																																																																																																																																																																																
016-25-1	1.502	3.13	.468	—	—	19,850	42.4		WELD	.050																																																																																																																																																																																																																																																																															
-25-2	1.500	3.13	.471	9050	19.2	19,950	42.3	13.2	WELD	.080																																																																																																																																																																																																																																																																															
016-27-1	1.504	1.88	.282	6550	23.2	11,350	40.1	6.1	EDGE OF WELD	.120-.065																																																																																																																																																																																																																																																																															
-27-2	1.504	1.87	.281	—	—	11,650	41.5		EDGE OF WELD	.065-.190																																																																																																																																																																																																																																																																															
016-33-1	1.503	3.10	.465	9700	20.8	20,350	43.7	9.9	WELD																																																																																																																																																																																																																																																																																
-33-2	1.493	3.11	.464	—	—	21,200	45.7		WELD																																																																																																																																																																																																																																																																																
016-43-1	1.504	3.14	.473	9500	20.1	21,400	45.2	12.9	WELD	.060																																																																																																																																																																																																																																																																															
-43-2	1.506	3.145	.473	9900	20.9	20,850	44.0	12.1	WELD	.060																																																																																																																																																																																																																																																																															
016-47-1	1.506	3.125	.471	9950	21.1	20,300	43.1	2.5	EDGE OF WELD																																																																																																																																																																																																																																																																																
-47-2	1.500	3.12	.468	10,050	21.5	20,000	42.7	8.5	EDGE OF WELD																																																																																																																																																																																																																																																																																
016-53-1	1.506	3.145	.472	11,500	30.6	22,800	48.1	16.5 6.7	WELD																																																																																																																																																																																																																																																																																
-53-2	1.507	3.145	.474	14,600	30.8	23,150	46.7	13.3 5.3	WELD																																																																																																																																																																																																																																																																																
-53-3	1.506	3.155	.475	14,750	31.0	21,300	44.8	10.3 3.9	EDGE OF WELD																																																																																																																																																																																																																																																																																
016-119-1	1.501	3.12	.468	16,450	35.9	25,200	53.6	13.1 5.8	BASE METAL																																																																																																																																																																																																																																																																																
-119-2	1.507	3.115	.464	16,250	34.6	24,950	52.2	14.7 9.5	BASE METAL																																																																																																																																																																																																																																																																																
TESTED BY: <u>W. ANDERSEN / WIDMER</u> DATE: <u>10/30/77</u>																																																																																																																																																																																																																																																																																									

FORM NO. 3922 0

⚠ Data for specimens no. 016-9-3 and 016-9-4 shown on next page.

TER073

TIM TG. NO. <div style="text-align: center; font-weight: bold;">2991</div>		ENGINEERING LABORATORY		TEST SPECIFICATION SPECIMEN DWG. NO.					
WORK ORDER <div style="text-align: center; font-weight: bold;">444-11-D-40</div>		TEST REPORT							
REQUESTER <div style="text-align: center; font-weight: bold;">F. WEBER</div>									
STATIC TENSION PLATE/SHEET									
			TEST TEMP. <u>ROOM</u> °F BASE MAT'L. <u>5456 AL</u>						
Butt      Cruciform			GRAIN DIRECTION <u>N/A</u>						
SPECIMEN NO.	b (in)	t (in)	A R D x t (in) 2	YIELD		ULTIMATE		% ELONG GL 2 10	TYPE OF FAILURE
				LOAD (lbs.)	KSI	LOAD (lbs.)	KSI		
016-1231	1.499	.315	.4722	—	—	16100	34.1		WELD .160
-1232	1.503	.317	.4765	8500	17.9	15450	32.4	11.4	WELD .170
016-1271	1.503	.372	.5681	—	—	23722	40.0		EQ. WELD .250/.165
-1272	1.507	.378	.5696	12850	22.6	21900	39.3	5.8	Base Metal .162/.290
016-1351	1.502	.3120	.4701	14500	30.8	22300	42.2	13.8 4.8	WELD
-1352	1.506	.3115	.4691	15650	33.4	22450	47.9	14.2 4.8	WELD
-1353	1.511	.3105	.4692	15150	32.3	22700	49.6	13.9 5.0	WELD
016-2011	1.506	.193	.2756	9050	32.8	11750	42.6	4.2	WELD
-2012	1.506	.134	.2771	9350	33.7	11750	42.4	4.2	WELD
-2013	1.502	.184	.2764	9200	33.3	11900	43.1	4.3	WELD
016-2051	1.509	.505	.7122	22100	26.4	23200	39.5	4.6	WELD
-2052	1.499	.505	.7370	20900	27.6	20200	39.9	4.7	WELD
-2053	1.505	.505	.7600	20700	27.2	23700	39.1	4.5	WELD
016-3021	1.510	.760	1.145	34750	30.3	51400	44.8	4.9	WELD
-3022	1.506	.760	1.145	34600	30.2	53300	44.6	4.5	WELD
-3023	1.511	.759	1.147	34500	30.1	52450	45.7	4.5	WELD
016-3041	1.503	.194	.2927	7200	21.6	11650	39.5	6.8	WELD
-3042	1.507	.192	.2903	6300	21.8	11250	39.9	7.5	WELD
-3043	1.507	.194	.2924	7200	24.6	11000	37.6	6.0	WELD
016-3231	1.509	.194	.2927	6950	23.7	11150	39.1	5.3	WELD
-3232	1.508	.193	.2910	6950	23.9	10500	36.1	5.2	WELD
-3233	1.510	.193	.2914	6750	23.3	10650	36.5	5.2	WELD
016-3241	1.490	.155	.2773	6500	21.6	11050	39.9	6.4	WELD
016-3242	1.502	.156	.2793	6450	23.1	11000	39.4	6.5	WELD

Cruciform

TESTED BY:

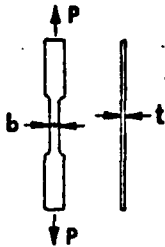
DATE:

FORM NO. 7027-0

TERO73

TIR TO, NO.	<u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>ASTM E-8</u>
WORK ORDER	<u>444-11-D-40</u>		SPECIMEN QWIT. NO.
REQUESTER	<u>F. WEBER</u>	TEST REPORT	

STATIC TENSION PLATE/SHEET



TEST TEMP ROOM °F

BASE MAT'L. 5456 AL.

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = D x t (in) <sup>2</sup>	YIELD		ULTIMATE		% ELONG GL <u>3.0</u>	TYPE OF FAILURE
				LOAD (lbs.)	KSI	LOAD (lbs.)	KSI		
016-305-1	1.504	1.945	2.925	6875	23.5	9100	32.8	4.9	WELD
-305-2	1.503	1.950	2.931	7150	24.4	13500	46.1	10.8	EDGE OF WELD
-305-3	1.505	1.950	2.935	6550	22.3	13250	45.1	10.0	EDGE OF WELD
016-307-1	1.507	1.950	2.939	6975	23.7	9750	33.2	4.9	WELD
-307-2	1.503	1.940	2.916	6500	22.3	9300	31.9	4.1	WELD
-307-3	1.509	1.940	2.927	6975	23.8	14100	48.2	12.5	EDGE OF WELD
016-313-1	1.504	1.04	2.918	7450	25.5	12050	41.3	7.0	WELD
-313-2	1.504	1.03	2.907	7400	25.5	12100	41.6	7.5	WELD
016-315-1	1.504	1.03	2.903	6900	23.3	10000	34.4	4.9	WELD
-315-2	1.503	1.03	2.901	7100	24.2	13100	45.2	9.2	WELD
016-317-1	1.504	1.940	2.918	7500	25.7	9650	33.1	4.6	WELD
016-317-2	1.504	1.935	2.91	8400	28.9	10750	36.9	3.9	WELD FAILURE
016-317-3	1.507	1.94	2.92	8550	29.2	10400	35.6	4.1	WELD FAILURE
-317-4	1.504	1.94	2.927	7950	26.8	10900	37.2	4.6	WELD
016-317-5	1.501	3.19	5.530	14850	26.8	24550	44.3	5.1	WELD
-317-6	1.502	3.18	5.527	15000	27.1	23550	43.2	8.3	WELD
016-321-1	1.504	3.51	5.354	14330	21.8	21350	43.2	11.4	WELD
-321-2	1.499	3.57	5.345	14350	21.8	25050	44.8	11.3	WELD
-321-3	1.503	3.57	5.360	14300	21.6	24000	44.7	9.2	WELD

TESTED BY:
DATE:

TERO73

[illegible]

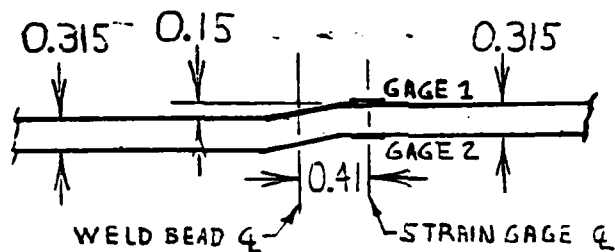
### 1.3 MISMATCH AND MISALIGNMENT SPECIMEN DATA


Four welded plate coupon specimens fabricated with joint offset mismatch or angular misalignment were each instrumented with a pair of strain gages prior to static tensile testing. The recorded and reduced data from these tests are presented in Tables C-2 through C-7 and Figures C-2 through C-6 on the following pages.




TER073

Table C-2. Static Tensile Test Strain Data - Specimen No. TT802016-25-1



LOAD	STRAIN GAGE RDGS. 		NOTES
	1	2	
0	150	140	
1	142	157	
2	508	198	
3	864	256	
4	1205	304	
5	1584	372	
6	2126	426	
7	3132 *	428	* Unstable
8	4797 *	448	
9	7260 *	472	
10	10570 *	538	
11		714	
12		1130 *	Drifting
13		2100 *	Drifting
14		4050 *	Drifting
15		7860 *	Drifting
16			
17.5			
19.85			Failure

 Readings in units of in./in. x 10<sup>-6</sup>

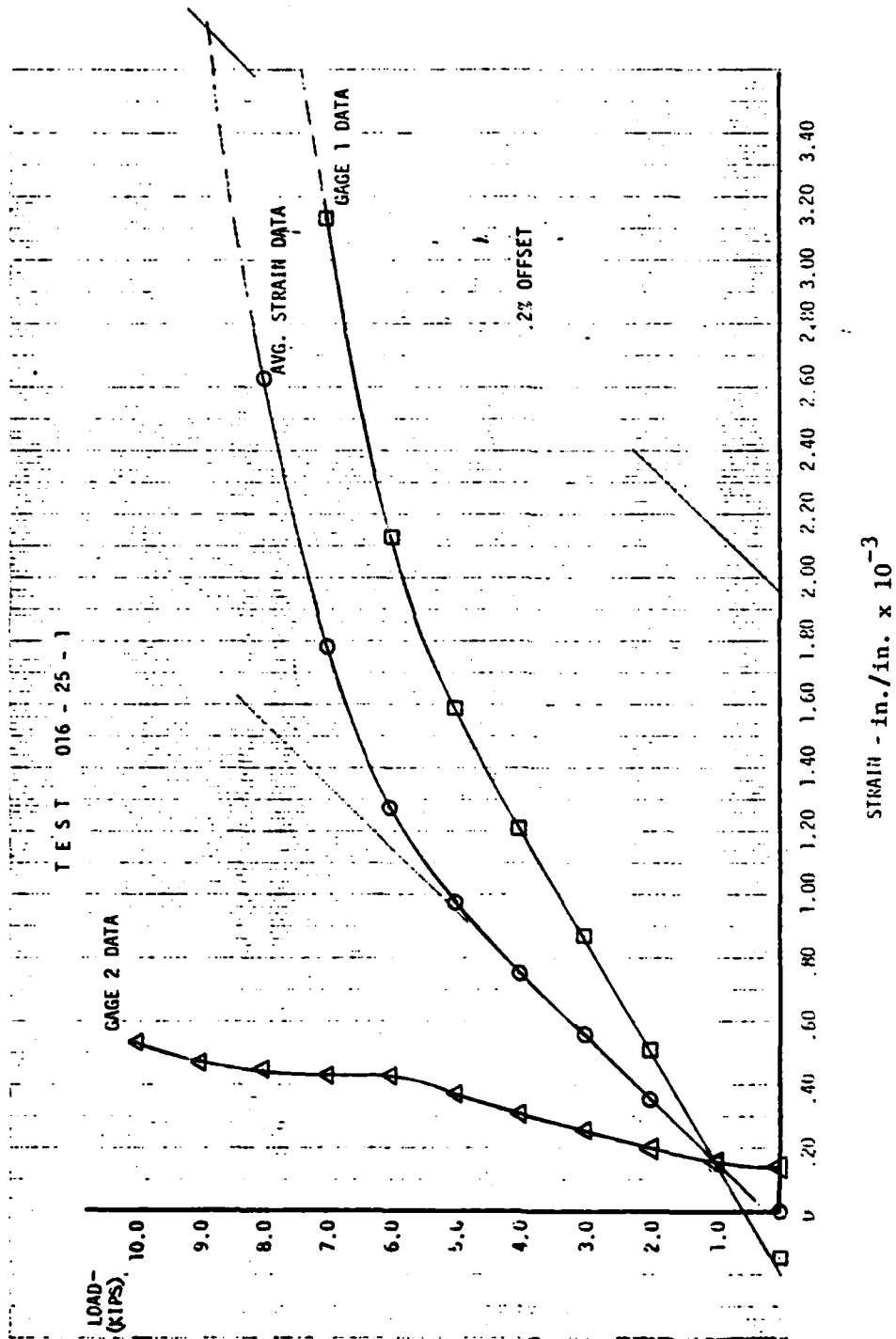
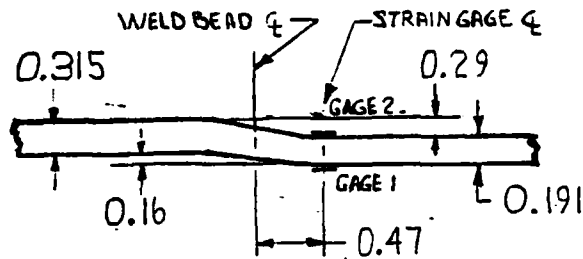


Figure C-2. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-25-1

TER073

Table C-3. Static Tensile Test Strain Data - Specimen No. TT802016-27-2



LOAD (kip)	① STRAIN GAGE RDGS.		NOTES
	1	2	
0	- 43	74	
0.1	- 44	76	
0.5	- 73	333	
1.0	- 93	571	
1.5	- 111	859	
2.0	- 113	1283	
2.5	- 98	1649	
3.0	- 78	2070	
3.5	- 52	2608	
4.0	- 21	3297	
4.5	20	4271	
5.0	78	5556	
5.5	172	6560 *	* Reading Unstable
6.0	334	5010 *	
6.5	584	4920 *	
7.0	996	4048 *	
7.5	1696 *	3490 *	
8	2764 *	3330 *	
9.0	7804 *	2220 *	
9.5	12480 *	1700 *	
10.	17835 *	1600 *	
10.5	24480 *	1290 *	
11	33745	1240	Failure @ EDGE of Weld Thin Side of Specimen.
11.65	15300	1195	

① Readings in units of in./in.  $\times 10^{-6}$

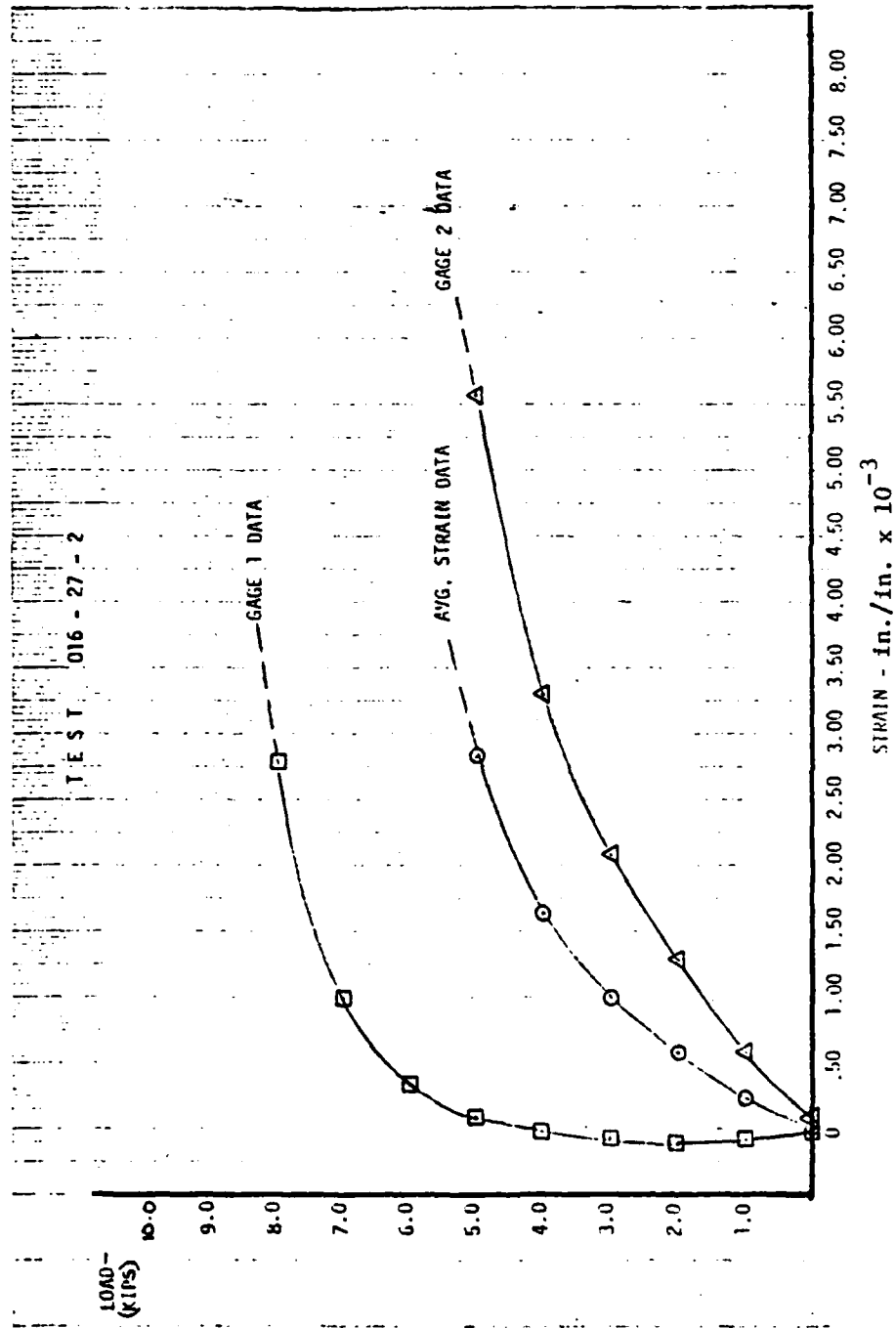
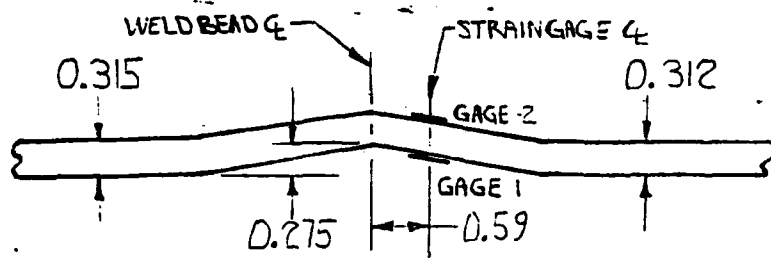




Figure C-3. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-27-2

TER073

Table C-4. Static Tensile Test Strain Data - Specimen No. TT802016-33-2



LOAD (kip)	STRAIN GAGE RDGS. 		NOTES
	1	2	
0	1144	-1100	* Gage Gives No Const. Output From Here On
0.2	1216	-1104	
1	1525	-1170	
2	2180	-1414	
3	3035	-1568	
4	3935	-1632	
5	4814	-1614	
6	5846	-1534	
7	6959	-1390	
8	8200	-1156	
9	9406	- 847	
10	10670	- 468	
11	12006 *	- 16	
12	13560	+ 554	
13	15380	+1318 *	
14	-	+2680	
15	18000	+5590	
16	-	+9470	
17	8000	-	
21.2	8000	-	

 Readings in units of in./in. x 10<sup>-6</sup>

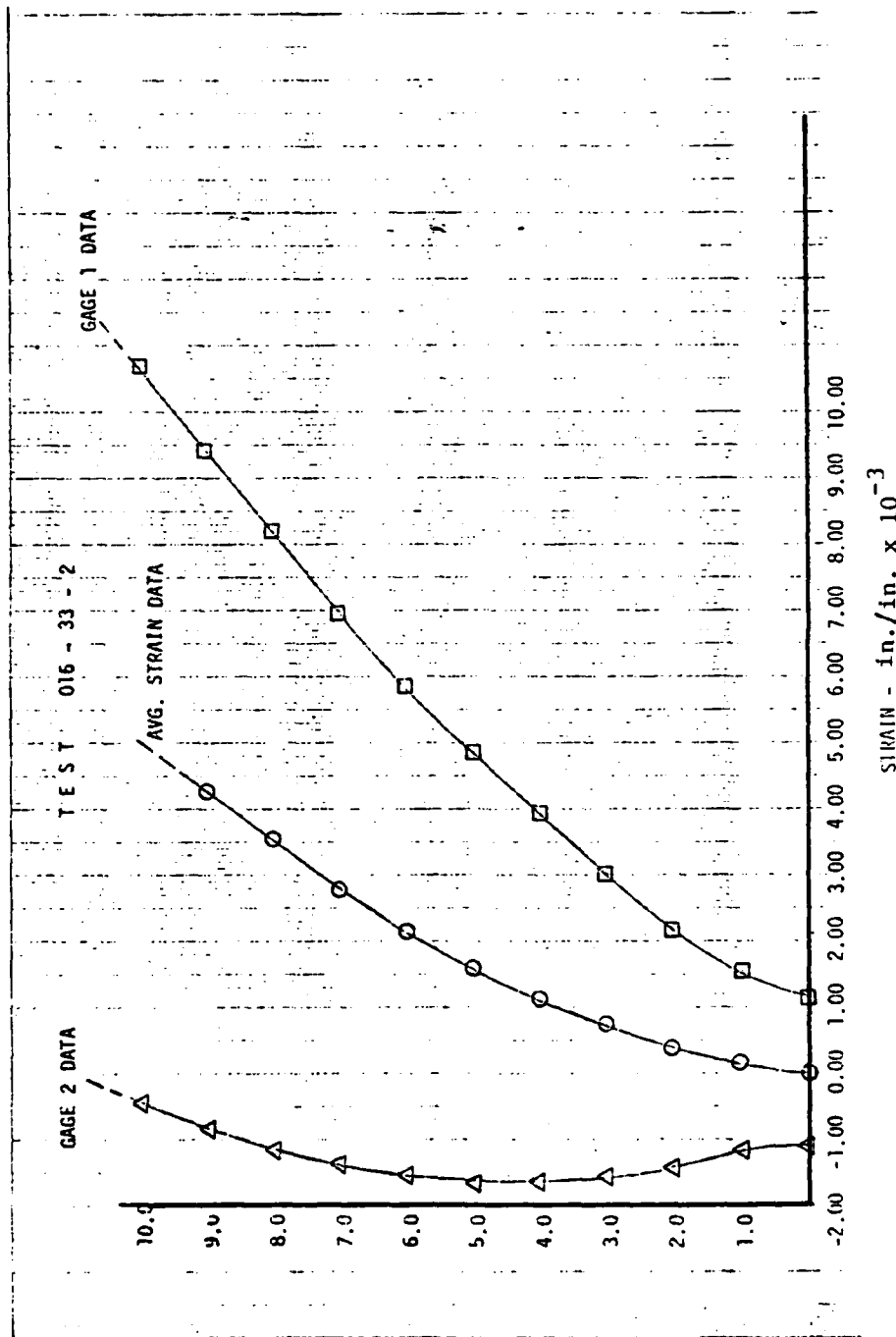
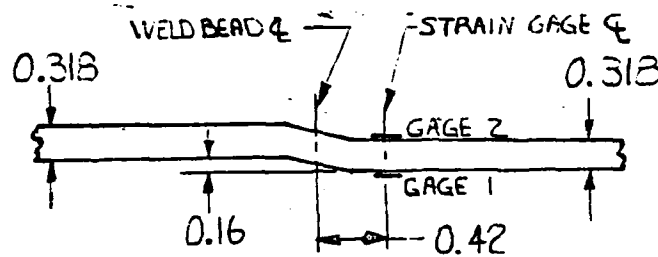


Figure C-4. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-33-2

TER073

Table C-5. Static Tensile Test Strain Data - Specimen No. TT802016-123-1



LOAD (kip)	STRAIN GAGE RDGS. <sup>1</sup>		NOTES
	1	2	
0	- 258	278	* Unstable Load
0.5	- 235	388	
1	- 233	544	
2	- 270	1010	
3	- 315	1475	
4	- 353	1954 *	
5	- 408	2640 *	
6	- 498	3730	
7	- 616	5335	
8	- 812	7744	
9	-1065	10983	
10	-1464	15310 **	
11	-2010	21300	
12	-2532		
13	-2885		
14	-3100		
15	-2905		
16	-2250		
16.1			

<sup>1</sup> Readings in units of in./in. x 10<sup>-6</sup>

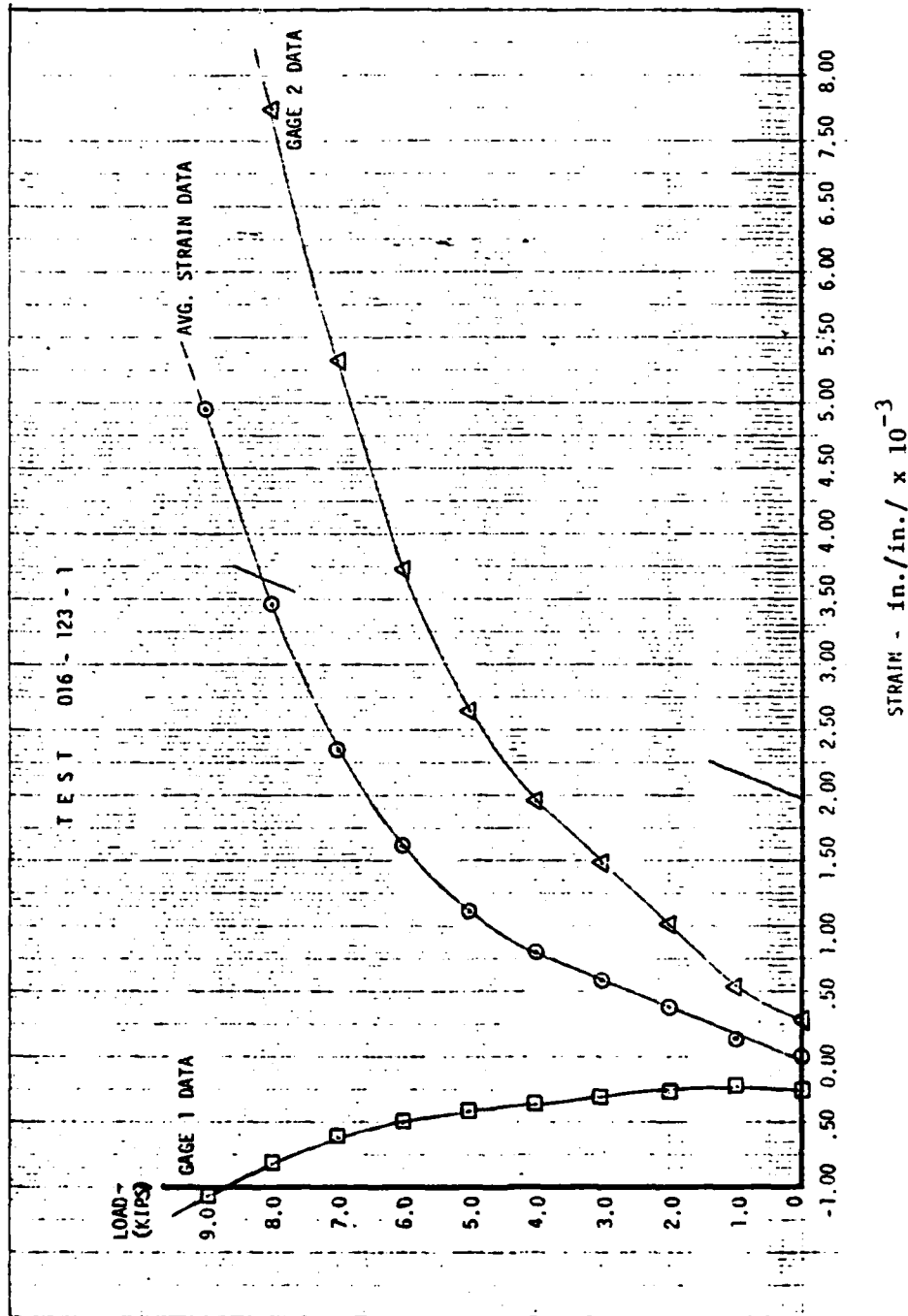
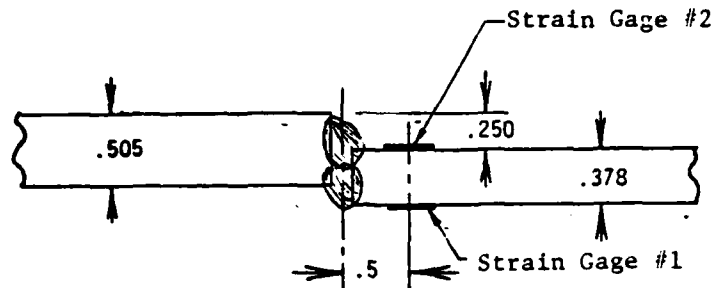


Figure C-5. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-123-1



TER073

Table C-6. Static Tensile Test Strain Data - Specimen No. TT802016-127-1



LOAD (lbs)	STRAIN DATA - $\mu\text{in./in.}$			NOTES
	GAGE #1	GAGE #2	AVERAGE	
0	0	0	0	
100	-528	595	34	
500	-528	756	114	
1000	-542	940	199	
1500	-550	1140	295	
2000	-558	1344	393	
2500	-568	1540	486	
3000	-576	1720	572	
3500	-582	1892	655	
4000	-572	2054	741	
4500	-562	2192	815	
5000	-552	2362	905	
5500	-544	2522	989	
6000	-542	2712	1085	
6500	-541	2912	1186	
7000	-546	3144	1299	
7500	-552	3418	1433	
8000	-564	3700	1568	
9000	-602	4540	1969	
9500	-640	5080	2220	
10K	-662	5614	2476	
10.5K	-704	6282	2789	
11K	-742	7000	3129	
11.5K	-780	7790	3505	
12K	-836	8820	3992	
12.5K	-855	9844	4495	
13.K	-900	10994	5047	
13.5K	-934	12290	5678	
14K	-924	13152	6114	
14.5K	-964	14870	6953	
15K	-938	16210	7636	
15.5K	-910	18414	8752	
16.0K	-868	-	-	Failure: 22.7 kips

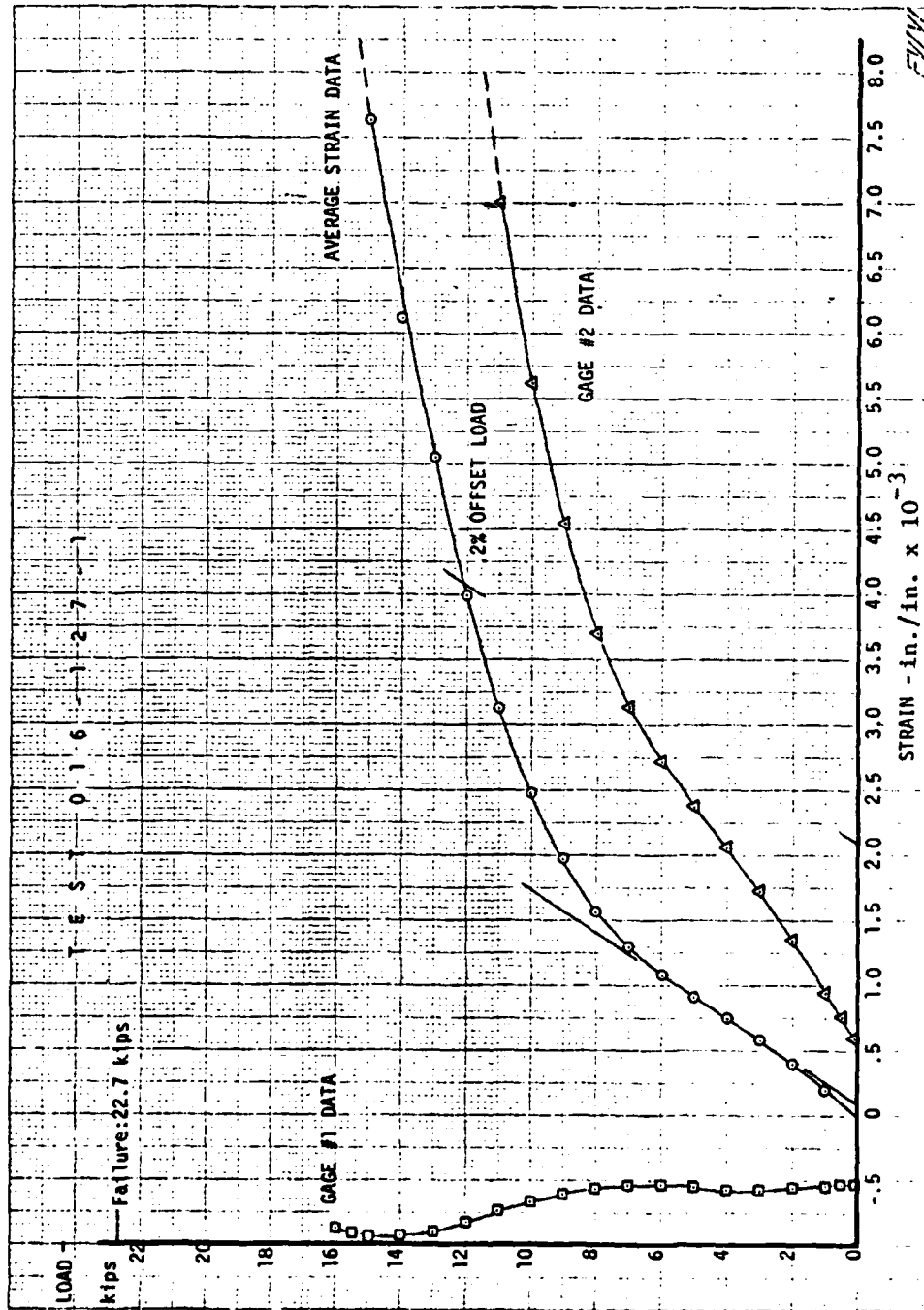


Figure C-6. Static Tensile Test Load-Strain Plots - Specimen No. TT802016-127-1

TER073

Table C-7. Average Strain Comparisons for Mismatched and Misaligned Welded Plate Specimens.

LOAD (kip)	SPECIMEN NUMBER - STRAIN - in./in. / $\times 10^{-3}$			
	016-25-1	016-27-2	016-33-2	016-123-1
0	.005	.0155	.022	.01
.1		.016		
.2			.056	
.5		.13		.0765
1	.1495	.239	.1775	.1555
1.5		.374		
2	.353	.585	.383	.37
2.5		.7755		
3	.56	.996	.7335	.58
3.5		1.278		
4	.7545	1.638	1.1515	.8005
4.5		2.1455		
5	.978	2.817	1.6	1.116
5.5		2.825		
6	1.276	2.672	2.16	1.616
6.5		2.752		
7	1.78	2.522	2.7845	2.3595
7.5		2.593		
8	2.6225	3.047	3.522	3.466
8.5		3.8425		
9	3.866	5.012	4.2795	4.959
9.5		7.09		
10	5.554	9.7175	5.101	6.923

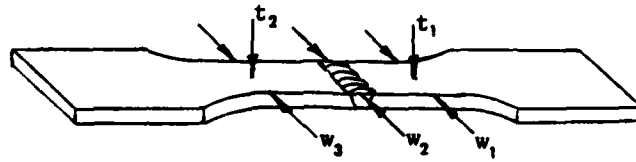
TER073

## 2 / FATIGUE TEST DATA

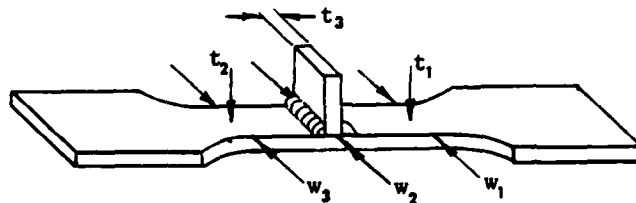
This section contains various detailed data pertinent to the welded plate coupon tensile fatigue and bending fatigue tests.

### 2.1 SPECIMEN DIMENSIONS

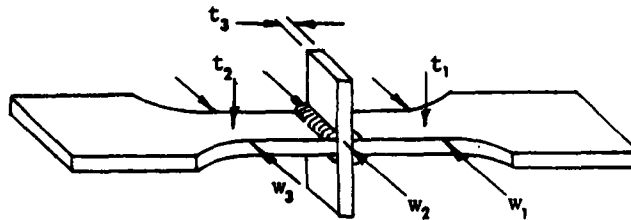
Specimen pretest measurement locations and the actual test section dimensions are presented in Figure C-7 and Table C-8, respectively.



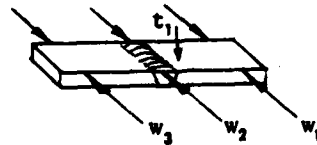
a) Transverse Butt Joint Tensile Fatigue Specimen



b) Transverse Tee Joint Tensile Fatigue Specimen



c) Transverse Cruciform Joint Tensile Fatigue Specimen




d) Transverse Butt Joint Bending Fatigue Specimen

Figure C-7. Welded Plate Fatigue Test Specimen Pretest Measurement Locations.

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 1 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	 OFFSET
Butt Jt. Tens. Fat.	019 -1 -1	.160	.161		1.503	1.502	1.502	
	-1 -2	.158	.160		1.504	1.505	1.503	
	-1 -3	.160	.161		1.503	1.505	1.502	
	-3 -1	.317	.313		1.500	1.500	1.499	
	-3 -2	.312	.313		1.496	1.498	1.498	
	-3 -3	.317	.314		1.500	1.499	1.498	
	-5 -1	.197	.312		1.497	1.501	1.502	
	-5 -2	.187	.305		1.497	1.501	1.503	
	-5 -3	.188	.308		1.512	1.508	1.506	
	-7 -1	.159	.159		1.503	1.504	1.503	.080
	-7 -2	.159	.158		1.502	1.504	1.502	"
	-7 -3	.159	.159		1.501	1.503	1.501	"
	-9 -1	.313	.314		1.497	1.496	1.496	.069
	-9 -2	.313	.314		1.499	1.499	1.499	"
	-9 -3	.313	.314		1.501	1.495	1.496	"
	-11 -1	.312	.312		1.502	1.500	1.500	
	-11 -2	.312	.312		1.490	1.479	1.479	
	-11 -3	.312	.312		1.508	1.508	1.508	
	-13 -1	.186	.312		1.503	1.504	1.508	
	-13 -2	.187	.312		1.501	1.509	1.509	
	-13 -3	.187	.313		1.500	1.500	1.498	
	-15 -1	.187	.315		1.500	1.502	1.503	.080
	-15 -2	.187	.315		1.501	1.502	1.502	"
	-15 -3	.187	.315		1.505	1.505	1.506	"
	-17 -1	.315	.315		1.505	1.505	1.504	
Butt Jt. Tens. Fat.	019 -17-2	.314	.314		1.501	1.501	1.503	

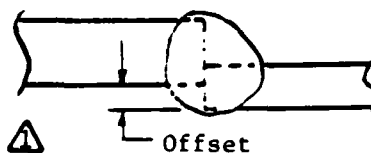



Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 2 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	OFFSET
Butt Jt. Tens. Fat.	019-17-3	.315	.314		1.507	1.508	1.506	
	-19-1	.185	.312		1.492	1.495	1.499	
	-19-2	.185	.311		1.497	1.498	1.501	
	-19-3	.185	.310		1.494	1.494	1.497	
	-21-1	.186	.312		1.495	1.496	1.494	
	-21-2	.186	.313		1.499	1.499	1.499	
	-21-3	.186	.313		1.505	1.502	1.505	
	-23-1	.160	.160		1.496	1.497	1.496	
	-23-2	.161	.160		1.494	1.492	1.493	
	-23-3	.160	.160		1.500	1.498	1.499	
	-25-1	.187	.313		1.497	1.500	1.500	
	-25-2	.187	.313		1.493	1.497	1.499	
	-25-3	.186	.312		1.500	1.498	1.500	
	-27-1	.164	.163		1.497	1.495	1.499	
	-27-2	.165	.165		1.499	1.499	1.496	
	-27-3	.164	.164		1.500	1.497	1.500	
	-29-1	.313	.313		1.503	1.501	1.503	
	-29-2	.312	.314		1.497	1.495	1.497	
	-29-3	.312	.313		1.500	1.501	1.501	
	-31-1	.185	.321		1.502	1.500	1.503	
	-31-2	.185	.320		1.500	1.500	1.500	
	-31-3	.185	.319		1.499	1.497	1.498	
	-33-1	.163	.163		1.506	1.505	1.505	
	-33-2	.163	.163		1.501	1.504	1.502	
	-33-3	.163	.163		1.505	1.506	1.505	
Butt Jt. Tens. Fat.	019-35-1	.315	.311		1.501	1.501	1.500	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 3 of 10).

All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	 OFFSET
Butt Jt. Tens. Fat.	019-35-2							
	-35-3	.313	.315		1.502	1.503	1.503	
	-37-1	.313	.316		1.503	1.504	1.504	
	-37-2	.316	.313		1.497	1.494	1.498	
	-37-3	.315	.312		1.499	1.499	1.500	
	-39-1	.314	.318		1.505	1.506	1.503	.050
	-39-2	.309	.314		1.500	1.500	1.500	.050
	-39-3	.315	.319		1.503	1.505	1.506	.050
	-41-1	.313	.184		1.502	1.500	1.502	
	-41-2	.313	.184		1.502	1.502	1.502	
	-41-3	.313	.184		1.503	1.502	1.501	
	-43-1	.301	.3185		1.500	1.500	1.499	
	-43-2	.301	.313		1.495	1.492	1.494	
	-43-3	.302	.313		1.500	1.500	1.501	
	-45-1	.185	.313		1.490	1.497	1.497	
	-45-2	.185	.313		1.500	1.501	1.503	
	-45-3	.185	.313		1.499	1.499	1.499	
	-47-1	.157	.158		1.499	1.501	1.499	
	-47-2	.158	.159		1.498	1.498	1.497	
	-47-3	.158	.159		1.500	1.501	1.501	
	-49-1	.311	.311		1.505	1.505	1.505	
	-49-2	.310	.311		1.504	1.504	1.504	
	-49-3	.311	.311		1.503	1.500	1.501	
	-51-1	.306	.306		1.503	1.502	1.503	
	-51-2	.306	.307		1.500	1.500	1.500	
Butt Jt. Tens. Fat.	019-51-3	.307	.307		1.502	1.500	1.500	

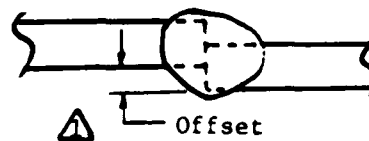




Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 4 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	OFFSET
Butt Jt. Tens. Fat.	019-65-1	.161	.161		1.499	1.498	1.497	
	-65-2	.161	.160		1.500	1.501	1.499	
	-65-3	.161	.161		1.500	1.499	1.500	
	-67-1	.314	.314		1.498	1.499	1.499	
	-67-2	.314	.314		1.502	1.502	1.501	
	-67-3	.314	.314		1.502	1.502	1.501	
	-75-1	.314	.314		1.503	1.502	1.501	
	-75-2	.314	.314		1.505	1.504	1.505	
	-75-3	.314	.313		1.507	1.506	1.506	
	-83-1	.314	.314		1.506	1.506	1.506	
	-83-2	.314	.315		1.503	1.502	1.501	
	-83-3	.314	.315		1.501	1.501	1.500	
	-85-1	.313	.313		1.504	1.503	1.502	
	-85-2	.313	.312		1.495	1.495	1.493	
	-85-3	.313	.313		1.498	1.499	1.499	
	-101-1	.313	.313		1.506	1.506	1.506	
	-101-2	.312	.314		1.500	1.500	1.502	
	-101-3	.314	.314		1.502	1.497	1.502	
	-103-1	.768	.769		1.505	1.505	1.502	
	-103-2	.768	.769		1.495	1.495	1.495	
	-103-3	.767	.766		1.508	1.509	1.509	
	-105-1	.377	.513		1.498	1.495	1.496	
	-105-2	.377	.508		1.499	1.501	1.501	
	-105-3	.378	.509		1.497	1.501	1.500	
	-109-1	.314	.315		1.502	1.504	1.502	
Butt Jt. Tens. Fat.	019-109-2	.314	.313		1.509	1.506	1.506	


Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 5 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	OFFSET
Butt Jt. Tens. Fat.	019-109-3	.314	.315		1.505	1.505	1.502	
↑	-111-1	.765	.765		1.504	1.503	1.503	
	-111-2	.765	.765		1.504	1.504	1.503	
	-111-3	.765	.765		1.504	1.502	1.505	
	-113-1	.376	.505		1.502	1.502	1.502	
	-113-2	.376	.505		1.502	1.502	1.502	
	-113-3	.377	.504		1.502	1.502	1.501	
	-115-1	.307	.312		1.508	1.508	1.508	
	-115-2	.312	.313		1.502	1.503	1.499	
	-115-3	.312	.313		1.505	1.505	1.504	
	-121-1	.310	.313		1.503	1.503	1.503	
↓	-121-2	.310	.313		1.501	1.501	1.502	
Butt Jt. Tens. Fat.	-121-3	.311	.312		1.501	1.500	1.500	
Tee Jt. Tens. Fat.	-201-1	.160	.160	.163	1.501	1.501	1.501	
↑	-201-2	.160	.160	.162	1.497	1.501	1.501	
	-201-3	.160	.160	.163	1.504	1.502	1.503	
	-203-1	.313	.319	.319	1.509	1.502	1.504	
	-203-2	.313	.314	.315	1.506	1.506	1.504	
	-203-3	.313	.314	.315	1.503	1.501	1.503	
	-205-1	.315	.319	.317	1.503	1.503	1.503	
	-205-2	.313	.319	.317	1.502	1.502	1.502	
	-205-3	.314	.319	.317	1.502	1.500	1.499	
	-209-1	.204	.203	.379	1.497	1.502	1.502	
	-209-2	.203	.204	.377	1.505	1.503	1.504	
↓	-209-3	.203	.202	.376	1.498	1.499	1.496	
Tee Jt. Tens. Fat.	019-211-1	.319	.320	.312	1.507	1.507	1.508	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 6 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	 OFFSET
Tee Jt. Tens. Fat.	019-211-2	.319	.320	.312	1.503	1.501	1.502	
	-211-3	.319	.324	.312	1.500	1.498	1.497	
	-213-1	.318	.315	.308	1.505	1.505	1.505	
	-213-2	.313	.315	.311	1.499	1.499	1.499	
	-213-3	.317	.314	.305	1.507	1.506	1.507	
	-221-1	.313	.315	.309	1.497	1.497	1.499	
	-221-2	.313	.315	.310	1.502	1.501	1.502	
	-223-1	.310	.311	.313	1.503	1.503	1.502	
Tee Jt. Tens. Fat.	-223-2	.310	.311	.314	1.502	1.503	1.501	
Cruc. Jt. Tens. Fat.	-301-1	.160	.160	.161	1.506	1.505	1.506	
	-301-2	.161	.161	.160	1.506	1.506	1.505	
	-301-3	.161	.161	.160	1.505	1.506	1.509	
	-303-1	.164	.162	.164	1.501	1.500	1.501	.040
	-303-2	.163	.163	.164	1.500	1.499	1.499	.040
	-303-3	.163	.163	.164	1.501	1.499	1.501	.040
	-305-1	.277	.277	.280	1.506	1.505	1.504	.050
	-305-2	.276	.276	.280	1.502	1.502	1.502	"
	-305-3	.277	.277	.279	1.501	1.502	1.502	"
	-307-1	.276	.277	.280	1.500	1.500	1.500	.025
	-307-2	.277	.275	.280	1.499	1.499	1.498	"
	-307-3	.275	.276	.279	1.499	1.499	1.499	"
	-309-1	.278	.276	.281	1.505	1.505	1.507	
	-309-2	.276	.279	.282	1.504	1.505	1.504	
	-309-3	.276	.279	.282	1.503	1.500	1.503	
	-311-1	.280	.280	.282	1.505	1.507	1.505	
Cruc. Jt. Tens. Fat.	019-311-2	.280	.280	.280	1.510	1.500	1.509	

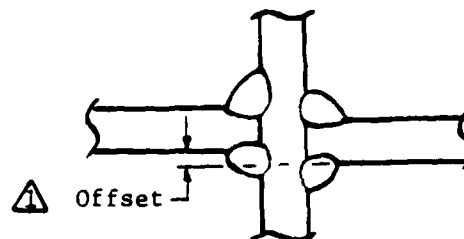


Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 7 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	OFFSET
Cruc. Jt. Tens. Fat.	019-311-3	.220	.220	.281	1.503	1.502	1.504	
	-313-1	.161	.161	.163	1.505	1.505	1.509	
	-313-2	.161	.161	.162	1.505	1.504	1.505	
	-313-3	.161	.161	.162	1.502	1.502	1.503	
	-315-1	.275	.279	.285	1.504	1.509	1.502	
	-315-2	.274	.278	.285	1.502	1.500	1.502	
Cruc. Jt. Tens. Fat.	-315-3	.273	.273	.265	1.502	1.501	1.502	
Butt Jt. Tens. Fat. (with imperf.)	-401-1	.194	.194		1.510	1.507	1.510	
	-401-2	.194	.194		1.505	1.505	1.505	
	-401-3	.187	.191		1.504	1.506	1.501	
	-401-4	.192	.193		1.501	1.504	1.501	
	-401-5	.192	.193		1.503	1.506	1.508	
	-401-6	.191	.192		1.506	1.505	1.506	
	019-401-7	.189	.192		1.509	1.512	1.509	
	019-401-8	.191	.190		1.509	1.510	1.510	
	-403-1	.194	.194		1.510	1.509	1.510	
	-403-2	.194	.194		1.508	1.512	1.511	
	-403-3	.195	.195		1.509	1.512	1.510	
	-403-4	.195	.195		1.494	1.494	1.494	
	-403-5	.193	.193		1.509	1.512	1.510	
	-403-6	.193	.193		1.509	1.511	1.509	
	-405-1	.194	.194		1.505	1.505	1.505	
	-405-2	.194	.194		1.505	1.504	1.505	
	-405-3	.194	.194		1.505	1.503	1.505	
	-405-4	.194	.193		1.504	1.504	1.504	
	-405-5	.194	.195		1.504	1.504	1.503	
	-405-6	.194	.195		1.504	1.504	1.511	
Butt Jt. Tens. Fat. (with imperf.)	019-407-1	.193	.194		1.508	1.505	1.507	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 8 of 10).

(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	$t_1$	$t_2$	$t_3$	$w_1$	$w_2$	$w_3$	OFFSET
Butt Jt. Tens. Fat. (with imperf.)	019-407-2	.193	.194		1.503	1.502	1.502	
	-407-3	.193	.194		1.503	1.503	1.502	
	-407-4	.195	.195		1.504	1.504	1.504	
	-407-5	.195	.195		1.502	1.502	1.502	
	-407-6	.195	.195		1.501	1.501	1.501	
	-413-1	.195	.194		1.503	1.502	1.502	
	-413-2	.193	.193		1.508	1.508	1.508	
	-413-3	.191	.195		1.504	1.502	1.502	
	-413-4	.195	.195		1.503	1.503	1.503	
	-415-1	.193	.194		1.505	1.505	1.505	
	-415-2	.194	.194		1.496	1.497	1.497	
	-415-3	.194	.193		1.495	1.495	1.494	
	-415-4	.194	.192		1.501	1.500	1.501	
	-417-R1	.192	.192		1.497	1.496	1.497	
	-417-R2	.193	.194		1.496	1.497	1.496	
	-417-R3	.193	.193		1.496	1.495	1.495	
	-417-R4	.192	.193		1.500	1.500	1.500	
	-419-1	.370	.370		1.506	1.506	1.506	
	-419-2	.363	.370		1.506	1.506	1.506	
	-419-3	.370	.370		1.504	1.504	1.504	
	-419-4	.366	.370		1.507	1.507	1.507	
	-419-5	.370	.372		1.503	1.502	1.502	
	-419-6X	.369	.371		1.502	1.503	1.502	
	-419-7X	.369	.371		1.502	1.501	1.502	
	-421-1	.358	.358		1.500	1.500	1.500	
	-421-2	.357	.356		1.502	1.503	1.503	
Butt Jt. Tens. Fat. (with imperf.)	019-421-3	.357	.358		1.506	1.504	1.504	

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 9 of 10).

(All dimensions in inches)

[illegible]

Table C-8. Welded Plate Fatigue Test Specimen Pretest Measurements  
(Sheet 10 of 10).  
(All dimensions in inches)

SPECIMEN TYPE	SPECIMEN NUMBER	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	OFFSET
		-	-					
				BENDING SPECIMENS				
Butt Jt. Bend. Fat.	020-1-1	.314			2.000	2.000	2.000	
↑	-1-2	.314			2.000	2.000	2.000	
	-1-3	.313			2.004	2.004	2.004	
	-1-4	.312			1.999	1.999	1.999	
	-1-5	.313			2.000	2.000	2.000	
	-1-6	.312			1.999	1.999	1.999	
	-3-1	.314			2.003	2.003	2.003	
	-3-2	.316			2.005	2.005	2.005	
	-3-3	.313			2.004	2.004	2.004	
	-3-4	.310			2.002	2.002	2.002	
	-3-5	.310			2.005	2.005	2.005	
	-3-6	.311			2.001	2.001	2.001	
	-5-1	.313			2.003	2.003	2.003	
	-5-2	.311			2.005	2.005	2.005	
	-5-3	.310			2.002	2.002	2.002	
	-9-1	.314			2.000	2.000	2.000	
	-9-2	.314			2.000	2.000	2.000	
	-9-3	.314			2.000	2.000	2.000	
	-11-1	.313			2.002	2.002	2.002	
	-11-2	.312			2.003	2.003	2.003	
	-11-3	.312			2.002	2.002	2.002	
	-13-1	.314			2.001	2.001	2.001	
	020-13-2	.313			2.001	2.001	2.001	
	020-13-3	.313			2.000	2.000	2.000	
	-15-1	.192			2.000	2.000	2.000	
	-15-2	.193			2.000	2.000	2.000	
	-15-3	.193			2.001	2.001	2.001	
	-101-1	.313			2.001	2.001	2.001	
↓	-101-2	.312			1.996	1.996	1.996	
Butt Jt. Bend. Fat.	020-101-3	.312			1.995	1.995	1.995	

## 2.2 TEST DATA SHEETS

This section contains copies of the test laboratory data sheets summarizing the recorded data for all welded plate specimen fatigue tests. Minor additions and deletions have been made on these sheets to enhance clarification.

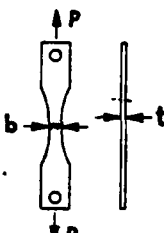
Data sheets for the butt weld specimen tensile fatigue tests are presented on pages B-504 through B-508. The tensile fatigue data sheets for transverse tee specimens are provided on pages B-508 and B-509 for transverse cruciform specimens, on pages B-509 and B-510. Data sheets for the tensile fatigue tests on butt welded specimens containing weld imperfections are presented on pages B-510 through B-513. Tensile fatigue retest data for all original run-out specimens is tabulated on page B-514. Pages B-515 through B-517 present the butt welded plate bending fatigue test data sheets.



TER073

TIR TG. NO.	2991	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER	444-11-0-40	TEST REPORT	SPECIMEN DWG. NO.
REQUESTER	F. WEBER		



TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F      FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) <sup>2</sup>	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				STRESS (KSI)	STRESS (KSI)	STRESS (KSI)		
019-1-1	1.502	.160	.2403	9/15	3605	15	108.7	FAILED
-1-2	1.505	.158	.2378	9/18	3091	13	200.4	FAILED
-1-3	1.505	.160	.2408	9/19	3130	13	383.5	FAILED
019-3-1	1.500	.313	.4695	9/19	7043	15	360.3	FAILED
-3-2	1.498	.313	.4689	9/25	6095	13	1623.1	FAILED
-3-3	1.499	.314	.4707	9/25	6119	13	423.5	FAILED
019-5-1	1.507	.187	.2807	10/20	4210	15	137.7	FAILED
-5-2	1.501	.187	.2807	10/24	3640	13	697.7	FAILED
-5-3	1.508	.188	.2825	10/25	3686	13	75.0	FAILED
019-7-1	1.504	.158	.2376	9/20	3564	13	59.3	FAILED
-7-2	1.504	.158	.2376	9/21	2614	11	81.7	FAILED
-7-3	1.503	.159	.2390	9/25	1673	7	2501.8	FAILED
019-9-1	1.496	.313	.4682	9/20	7024	15	52.1	FAILED
-9-2	1.499	.313	.4692	9/21	5161	11	1752.8	FAILED
-9-3	1.495	.313	.4679	9/26	3155	13	112.7	FAILED
019-11-1	1.500	.312	.4680	10/5	3424	12	495.0	FAILED
-11-2	1.474	.312	.4597	10/9	9193	20	258.9	FAILED
-11-3	1.508	.312	.4705	10/12	3469	18	1597.7	FAILED
019-13-1	1.504	.186	.2797	10/17	4196	15	3950.0	NO FAILURE
-13-2	1.504	.187	.2812	10/20	5625	20	73.2	FAILED
-13-3	1.500	.187	.2805	10/23	4769	17	126.9	FAILED
019-15-1	1.502	.187	.2809	10/23	4213	15	104.5	FAILED
-15-2	1.502	.187	.2809	10/27	3651	13	17.1	FAILED
-15-3	1.505	.187	.2814	10/30	3659	13	19.2	FAILED

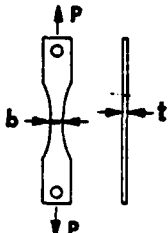
TESTED BY: WOODS / WIDMER      DATE: 8-17-79

Transverse Butt Joint

TER073

TIA TG. NO.	2991	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER	444-11-0-40	TEST REPORT	SPECIMEN DWG. NO.
REQUESTER	F. WEBER		



**TENSION FATIGUE PLATE/SHEET**

TEST TEMP \_\_\_\_\_ °F  
 BASE MAT'L. 5456 AL  
 FREQUENCY (cpm) 1000  
 GRAIN DIRECTION N/A

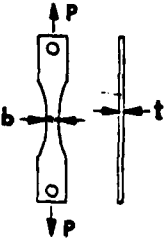
  

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) <sup>2</sup>	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				STRESS (ksi)	P (lbs.)	KSI		
019-17-1	1.505	.315	.4741	10/4	3533	18	11.8	FAILED
-17-2	1.501	.314	.4713	10/9	7070	15	1037.9	NO FAILURE *
-17-3	1.508	.314	.4735	10/11	8523	18	342.6	FAILED
019-19-1	1.495	.185	.2766	10/23	4149	15	142.3	FAILED
-19-2	1.498	.185	.2771	11/25	3603	13	495.1	FAILED
-19-3	1.494	.185	.2771	10/27	3603	13	531.3	FAILED
019-21-1	1.496	.186	.2783	10/24	4175	15	7.9	FAILED
-21-2	1.498	.186	.2786	10/25	2507	9	15.7	FAILED
-21-3	1.502	.186	.2794	10/27	1397	5	48.3	FAILED
019-23-1	1.497	.160	.2395	2/6	4311	18	35.8	FAILED
-23-2	1.492	.160	.2387	2/8	3581	15	101.6	FAILED
-23-3	1.498	.160	.2397	2/11	3116	13	151.7	FAILED
019-25-1	1.500	.187	.2805	10/23	4769	17	101.3	FAILED
-25-2	1.497	.187	.2799	10/24	4199	15	246.6	FAILED
-25-3	1.498	.186	.2786	10/27	3622	13	624.3	FAILED
019-27-1	1.495	.163	.2437	2/25	3168	13	48.4	FAILED
-27-2	1.499	.165	.2473	2/28	2720	11	1167.0	NO FAILURE *
-27-3	1.497	.164	.2455	10/3	3192	13	130.6	FAILED
019-29-1	1.501	.313	.4693	10/4	7047	15	357.3	FAILED
-29-2	1.495	.312	.4664	10/6	7929	17	99.1	FAILED
-29-3	1.501	.312	.4683	10/9	7025	15	256.1	FAILED
019-31-1	1.500	.185	.2775	4/10	3608	13	482.5	FAILED
-31-2	1.500	.185	.2775	4/11	3608	13	507.3	FAILED
-31-3	1.497	.185	.2769	4/9	4985	18	24.6	FAILED
* RERUN (DATA AT END OF SPECIMEN LIST)								
TESTED BY: WOODS/WIDMER				DATE: 8-17-79				

Transverse Butt Joint

TER073

TIR TO, NO. <u>2991</u> WORK ORDER <u>444-11-0-40</u> REQUESTER <u>F. W. RABER</u>	ENGINEERING LABORATORY  TEST REPORT	TEST SPECIFICATION SPECIMEN DWG. NO.
---	---	---



**TENSION FATIGUE PLATE/SHEET**

TEST TEMP ROOM °F      FREQUENCY (cpm) 1000  
 BASE MAT'L. 525621  
 GRAIN DIRECTION 1/1

SPECIMEN NO.	b (in)	t (in)	A B D 1 (in) 2	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				P (lbs.)	KSI			
019-33-1	1.506	.163	.2455	9/28	4419	18	125.4	FAILED
-33-2	1.504	.163	.2452	10/2	3678	15	1017.3	NO FAILURE *
-33-3	1.506	.163	.2470	9/27	3211	13	1533.1	NO FAILURE *
019-35-1	1.501	.311	.4668	9/28	6069	13	629.4	FAILED
-35-2	1.506	.313	.4714	10/6	7071	15	1075	NO FAILURE *
-35-3	1.503	.312	.4659	10/6 12/19	7972	17	1320.0	FAILED
019-37-1	1.504	.312	.4708	9/29	8474	18	162.0	FAILED
-37-2	1.494	.313	.4676	10/3	7014	15	1757.1	NO FAILURE
-37-3	1.499	.312	.4677	10/9	8418	18	218.3	FAILED
019-39-1	1.505	.314	.4725	4/2	8536	18	70.2	FAILED
-39-2	1.500	.309	.4635	3/23	9270	20	176.5	FAILED
-39-3	1.503	.314	.4719	3/29	9495	18	241.2	FAILED
019-41-1	1.500	.184	.2760	4/5	4692	17	25.7	FAILED
-41-2	1.502	.184	.2764	4/6	3593	13	950.9	FAILED
-41-3	1.502	.184	.2764	4/6	4146	15	102.9	FAILED
019-43-1	1.500	.301	.4515	10/5	5870	13	1281.3	NO FAILURE *
-43-2	1.492	.301	.4491	10/6	7635	17	114.8	FAILED
-43-3	1.500	.302	.4530	10/6	6795	15	148.4	FAILED
019-45-1	1.497	.185	.2769	10/27	3600	13	81.8	FAILED
-45-2	1.501	.185	.2777	10/30	3055	11	420.6	FAILED
-45-3	1.499	.185	.2773	10/30	3050	11	191.7	FAILED
019-47-1	1.501	.157	.2357	9/12	4243	18	88.0	FAILED
-47-2	1.498	.158	.2367	9/14	3550	15	158.6	FAILED
-47-3	1.501	.158	.2372	9/18	3093	13	1683.6	FAILED
* RETURN (DATA AT END OF SPECIMEN LIST)								

TESTED BY: WOODS/WIOMER
DATE: 8-17-79

Transverse Butt Joint

TER073

TIR TG. NO. <b>2991</b>		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER <b>444-11-0-40</b>		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER <b>F. WEBER</b>					

Diagram showing a tension fatigue plate with width  $b$ , thickness  $t$ , and load  $P$  applied vertically.

**TENSION FATIGUE PLATE/SHEET**

TEST TEMP Room °F      FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

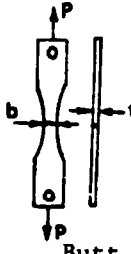
SPECIMEN NO.	b (in)	t (in)	A = b x t (in) <sup>2</sup>	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				REV	P (lbs.)	KSI		
09-49-1	1.505	.311	.4681	11/21	9361	20	574.3	FAILED
-49-2	1.504	.310	.4662	11/22	10257	22	129.3	FAILED
-49-3	1.500	.311	.4665	11/27	9330	20	300.2	FAILED
09-51-1	1.502	.306	.4596	11/22	6894	15	540.2	FAILED
-51-2	1.500	.306	.4590	11/22	7803	17	31.7	FAILED
-51-3	1.500	.307	.4605	11/29	6908	15	2606.3	NO FAILURE *
09-65-1	1.498	.161	.2412	9/5	4341	18	108.5	FAILED
-65-2	1.501	.160	.2402	9/5	4323	18	71.8	FAILED
-65-3	1.499	.161	.2413	9/7 1/2	3620	15	823.3	FAILED
09-67-1	1.494	.314	.4691	9/28	7035	15	1069.4	NO FAILURE *
-67-2	1.502	.314	.4716	9/27	6131	13	1326.9	NO FAILURE *
-67-3	1.502	.314	.4716	10/2	8489	18	800.0	FAILED IN GRIP
09-75-1	1.502	.314	.4716	3/22	10375	22	167.7	FAILED
-75-2	1.504	.314	.4723	3/26	9445	20	883.6	FAILED
-75-3	1.506	.313	.4714	3/28	10371	22	444.3	FAILED
09-83-1	1.506	.314	.4729	3/27	10414	22	300.7	FAILED
-83-2	1.502	.314	.4716	3/30	10376	22	224.3	FAILED
-83-3	1.501	.314	.4713	11/22 9/3	9426	20	514.2	FAILED IN GRIP
09-85-1	1.503	.313	.4704	3/29	10350	22	250.6	FAILED
-85-2	1.495	.313	.4679	4/3	9359	20	2166.0	NO FAILURE
-85-3	1.499	.305	.4572	4/5	10058	22	68.2	FAILED
09-101-1	1.506	.313	.4714	10/10	8485	18	115.9	FAILED
-101-2	1.500	.314	.4710	10/13	7065	15	367.7	FAILED
-101-3	1.477	.314	.4701	10/16	7051	15	727.6	FAILED
* RETURN DATA AT END OF SPECIMEN LIST								
TESTED BY: <u>WOODS / WIDMER</u>				DATE: <u>8-17-79</u>				

Transverse Butt Joint

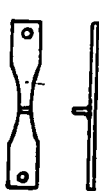
TER073

TIA TG. NO. <b>2991</b>		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER <b>444-11-0-40</b>		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER <b>F. W. E. B. E. R</b>					



Butt



Tee

**TENSION FATIGUE PLATE/SHEET**

TEST TEMP ROOM °F      FREQUENCY (cpm) 1000

BASE MAT'L. 5456 A1

GRAIN DIRECTION 1/1A      ▲ TESTED @ G.D./CONVAIR DIV.

SPECIMEN NO.	b (in)	t (in)	A b d t (in) <sup>2</sup>	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
				MIN	P (lbs.)	KSI		
019-103-1	1.505	.768	1.156	5/14		18	77.0	FAILED ▲
-103-2	1.495	.768	1.148	5/14		15	178.0	FAILED ▲
-103-3	1.508	.766	1.155	5/14		12	1975.0	FAILED ▲
019-105-1	1.495	.377	.5636	10/31	10145	18	15.4	FAILED
-105-2	1.501	.377	.5659	10/31	7356	13	93.2	FAILED
-105-3	1.501	.379	.5674	11/1	6241	11	354.6	FAILED
019-109-1	1.504	.314	.4720	3/21: 4/3	9445	20	605.2	FAILED IN GRIP
-109-2	1.506	.313	.4714	3/23	11313	24	39.8	FAILED
-109-3	1.505	.314	.4725	4/5	9451	20	2692.1	NO FAILURE
019-111-1	1.503	.765	1.150	5/14		20	61.0	FAILED ▲
-111-2	1.503	.765	1.150	5/14		17	179.0	FAILED ▲
-111-3	1.502	.765	1.149	5/14		14	593.0	FAILED! ▲
019-113-1	1.502	.376	.5647	4/11	12425	22	37.1	FAILED
-113-2	1.506	.376	.5663	4/13	8394	15	2097.3	NO FAILURE
-113-3	1.502	.377	.5663	4/15	10193	18	444.3	FAILED
019-115-1	1.508	.307	.49630	3/23	11112	24	163.8	FAILED
-115-2	1.503	.312	.4690	3/22	9379	20	1411.8	NO FAILURE
-115-3	1.505	.311	.4681	3/22	10297	22	489.6	FAILED
019-117-1	1.503	.310	.4659	12/1	83816	18	534.7	FAILED
-117-2	1.501	.310	.4653	10/12	9306	20	637.9	FAILED
-117-3	1.500	.311	.4665	10/13	9330	20	158.7	FAILED
019-201-1	1.501	.160	.2402	12/1	3603	15	1804.6	NO FAILURE *
-201-2	1.501	.160	.2402	12/4	4323	18	445.8	NO FAILURE *
-201-3	1.502	.160	.2403	12/5	5287	22	326.7	FAILED
* RETURN (DATA AT END OF SPECIMEN LIST)								
TESTED BY: WOODS / WIDMER				DATE: 8-17-79				

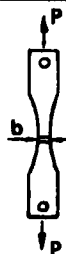
Transverse Butt Joint

Transverse Tee Joint

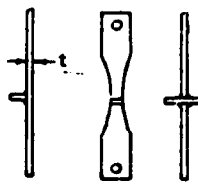
TER073

TIA TC. NO. <u>2991</u>		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER <u>444-11-0-40</u>		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER <u>F. WEBER</u>					



Tee



Cruciform

**TENSION FATIGUE PLATE/SHEET**

TEST TEMP Room °F      FREQUENCY (cpm) 1000  
 BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) <sup>2</sup>	CYCLING DATA			CYCLES TO FAILURE	REMARKS
				Waveform	P (lbs.)	KSI		
019-203-1	1.502	.313	.4701	1/16	8462	18	501.1	FAILED
-203-2	1.506	.313	.4798	1/16	9428	20	132.7	FAILED
-203-3	1.501	.313	.4698	1/16	8457	18	360.5	FAILED
019-205-1	1.503	.315	.4734	1/16	8521	18	510.2	FAILED
-205-2	1.502	.313	.4701	1/20	9403	20	182.6	FAILED
-205-3	1.502	.314	.4710	1/22	8478	18	181.1	FAILED
019-207-1	1.502	.203	.3049	1/16	5488	18	1858.2	FAILED
-207-2	1.503	.203	.3051	1/30	6002	20	299.5	FAILED
-207-3	1.499	.202	.3028	1/30	6056	20	211.6	FAILED
019-211-1	1.507	.319	.4807	1/16	8653	18	175.0	FAILED
-211-2	1.501	.319	.4788	1/20	8619	18	328.1	FAILED
-211-3	1.498	.319	.4779	1/22	7168	15	565.5	FAILED
019-213-1	1.505	.315	.4791	3/29	9482	20	71.8	FAILED
-213-2	1.499	.313	.4692	3/29	8446	18	101.1	FAILED
-213-3	1.506	.314	.4729	3/30	7093	15	261.7	FAILED
019-221-1	1.497	.313	.4686	1/12	8434	18	416.0	FAILED
-221-2	1.501	.313	.4698	1/13	9396	20	285.2	FAILED IN SRIP
019-223-1	1.503	.310	.4659	1/29	9318	20	163.4	FAILED
-223-2	1.503	.304	.4569	1/2	8224	18	41.7	FAILED
019-301-1	1.505	.160	.2403	1/8	2649	11	831.8	FAILED
-301-2	1.506	.161	.2425	1/8	3153	13	232.5	FAILED
-301-3	1.506	.161	.2425	1/9	3153	13	241.7	FAILED
019-303-1	1.501	.162	.2432	12/1	2675	11	515.1	FAILED
-303-2	1.499	.163	.2443	12/6	3176	13	274.0	FAILED
-303-3	1.499	.163	.2443	12/6	2688	11	1255.1	FAILED

TESTED BY: WOODS / WIDMER      DATE: 8-17-79

TER073

VIR TG. NO.		ENGINEERING LABORATORY		TEST SPECIFICATION	
WORK ORDER 2991		TEST REPORT		SPECIMEN DWG. NO.	
REQUESTER 444-11-D-40					
REQUESTER F. WEBER					

Butt

Cruciform

**TENSION FATIGUE PLATE/SHEET**

TEST TEMP Room °F      FREQUENCY (cpm) 1000  
 BASE MAT'L. 5456 AL

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = b x t (in) 2	CYCLING DATA			CYCLES TO FAILURE	REMARKS
					P (lbs.)	KSI		
019-305-1	1.505	.277	.4169	1/6	4586	11	470.5	FAILED
-305-2	1.502	.276	.4146	1/6	5232	12	147.9	FAILED
-305-3	1.502	.277	.4161	1/12	4577	11	398.3	FAILED
019-307-1	1.500	.276	.4140	1/7	4554	11	215.3	FAILED
-307-2	1.499	.275	.4122	1/3	4534	11	115.1	FAILED
-307-3	1.499	.275	.4122	1/3	3710	9	467.8	FAILED
019-309-1	1.503	.276	.4162	1/3	4578	11	2446.3	NO FAILURE *
-309-2	1.505	.276	.4154	1/10	5400	13	75.7	FAILED
-309-3	1.500	.276	.4140	1/14	4554	11	258.4	FAILED
019-311-1	1.507	.280	.4220	1/21	5435	13	67.6	FAILED
-311-2	1.510	.280	.4228	1/21	4651	11	155.8	FAILED
-311-3	1.502	.280	.4206	1/25	3785	9	759.6	FAILED
019-313-1	1.505	.161	.2423	1/10	4361	13	115.2	FAILED
-313-2	1.504	.161	.2421	1/13	3632	15	335.8	FAILED
-313-3	1.502	.161	.2418	1/13	3627	15	253.5	FAILED
019-315-1	1.499	.275	.4122	1/14	7420	18	147.5	FAILED
-315-2	1.500	.274	.4110	1/15	6065	15	606.1	FAILED
-315-3	1.501	.273	.4098	1/17	6147	15	560.9	FAILED
019-401-1	1.507	.194	.2924	1/27	4395	15	561.6	FAILED
-401-2	1.505	.194	.2920	7/2	4380	15	414.5	FAILED
-401-3	1.506	.187	.2816	7/3	4224	15	284.3	FAILED
-401-4	1.504	.192	.2888	7/6	4332	15	261.2	FAILED
-401-5	1.506	.192	.2892	7/11	4337	15	334.5	FAILED
-401-6	1.505	.191	.2875	7/11	4313	15	197.8	FAILED
* RETURN (DATA AT END OF SPECIMEN LIST)								
TESTED BY: <u>WOODS / WIDMER</u>				DATE: <u>8-17-79</u>				

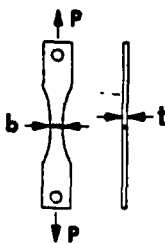
 Transverse Butt Joint  
with Imperfections

Transverse Cruciform Joint

TER073

TIA TG. NO. <u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER <u>444-11-0-40</u>	TEST REPORT	SPECIMEN DWG. NO.
REQUESTER <u>F. W. E. B. R.</u>		



TENSION FATIGUE PLATE/SHEET

TEST TEMP Room °F

FREQUENCY (cpm) 1000

BASE MAT'L. 5456 AL

GRAIN DIRECTION 1/4

SPECIMEN NO.	b (in)	t (in)	A = b x t (in <sup>2</sup> )	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
					P (lbs.)	KSI		
019-4031	1.509	.194	.2927	6/29	4391	15	595.2	FAILED
-4032	1.512	.194	.2933	7/3	4400	15	534.0	FAILED
-4033	1.512	.195	.2918	7/5	4423	15	339.9	FAILED
-4034	1.494	.195	.2913	7/9	4370	15	256.3	FAILED
-4035	1.512	.193	.2918	7/11	4377	15	292.2	FAILED
-4036	1.511	.193	.2916	7/12	4374	15	1022.2	FAILED
019-4051	1.565	.194	.2920	6/6	4380	15	101.3	FAILED
-4052	1.504	.194	.2915	6/7	3793	13	155.9	FAILED
-4053	1.503	.194	.2916	6/11	3207	11	158.1	FAILED
-4054	1.504	.193	.2903	6/13	2903	10	821.8	FAILED
-4055	1.504	.194	.2918	6/18	3210	11	2483.9	FAILED
-4056	1.504	.194	.2918	6/21	3210	11	1694.9	NO FAILURE
019-4071	1.505	.193	.2905	6/5	4357	15	70.9	FAILED
-4072	1.502	.193	.2899	6/8	3189	11	154.6	FAILED
-4073	1.503	.192	.2901	6/12	2901	10	462.1	FAILED
-4074	1.504	.195	.2933	6/22	3226	11	265.7	FAILED
-4075	1.502	.195	.2929	6/13	2639	9	2711.7	NO FAILURE
-4076	1.501	.195	.2927	6/22	3220	11	713.5	FAILED
019-4131	1.502	.194	.2919	7/2	3788	12	774.0	FAILED
-4132	1.508	.193	.2910	7/5	3784	13	719.0	FAILED
-4133	1.502	.195	.2929	7/6	3505	13	1162.5	FAILED
-4134	1.503	.195	.2931	7/9	3810	13	522.1	FAILED

TESTED BY: WOODS/WIDMER

DATE: 8-17-79

Transverse Butt Joint with Imperfections



TER073

## Transverse Butt Joint with Imperfections

TER073

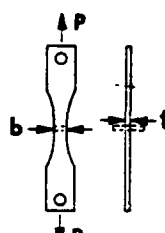
[illegible]

## Transverse Butt Joint with Imperfections

TER073

VIN TO. NO. <div style="border: 1px solid black; padding: 2px; display: inline-block;">2991</div>	ENGINEERING LABORATORY  TEST REPORT	TEST SPECIFICATION <div style="border: 1px solid black; padding: 2px; display: inline-block;">RMI TTP00016A</div> SPECIMEN DWG. NO.
WORK ORDER <div style="border: 1px solid black; padding: 2px; display: inline-block;">444-11-0-10</div>		
REQUESTER <div style="border: 1px solid black; padding: 2px; display: inline-block;">F. WEBER</div>		

TENSION FATIGUE PLATE/SHEET



TEST TEMP Room °F  
 BASE MAT'L. 5456 AL

FREQUENCY (cpm) 1000

GRAIN DIRECTION N/A

SPECIMEN NO.	b (in)	t (in)	A = D x t (in) <sup>2</sup>	CYCLING DATA			CYCLES TO FAILURE	REMARKS
				P (lbs.)	KSI			
019-67-1	1.499	.314	.4691	11/15	9382	20	401.2	FAILED (REVN)
019-67-2	1.502	.314	.4716	11/17	8482	18	1636.2	FAILED (REVN)
019-19-1	1.502	.369	.5546	3/15	9983	18	946.7	FAILED
019-19-2	1.501	.369	.5539	3/16	9970	18	1080.2	FAILED
019-41-1	1.512	.189	.2858	7/13	4257	15	205.5	FAILED
019-41-2	1.510	.190	.2869	7/13	4304	15	33.7	FAILED
019-17-2	1.501	.314	.4713	12/20		20	35.2	FAILED R12
019-27-2	1.499	.165	.2473	1/12		15	6555.1	No FAILURE R12
019-33-2	1.504	.163	.2452	12/18		20	259.9	FAILED R12
019-33-3	1.506	.163	.2470	12/21		18	1685.0	FAILED R12
019-35-2	1.506	.313	.4714	12/19		20	306.6	FAILED R12
019-43-1	1.500	.301	.4515	12/20		17	329.3	FAILED R12
019-51-3	1.500	.307	.4605	1/3		20	827.1	FAILED R12
019-201-1	1.501	.160	.2402	1/5		18	4148.9	No FAILURE R12
019-201-2	1.501	.160	.2402	1/12		24	154.2	FAILED R12
019-303	1.508	.276	.4162	1/3		15	35.6	FAILED R12
019-201-1	1.501	.160	.2402	1/15		22	350.6	FAILED R12

SPECIMEN CONFIGURATION:
 

☐ Transverse Butt Joint

☐ Transverse Tee Joint

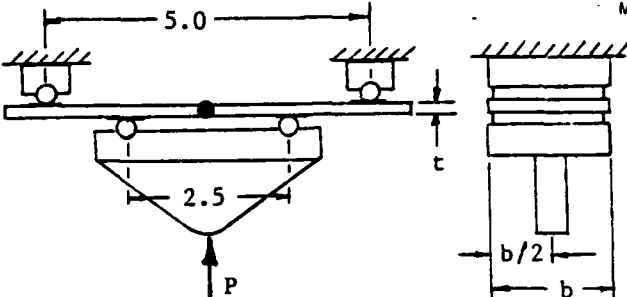
☐ Transverse Cruciform Joint

☐ Transverse Butt Joint with Imperfections

TESTED BY: NGOOS/WIDMER

DATE: 8-17-79

TER073

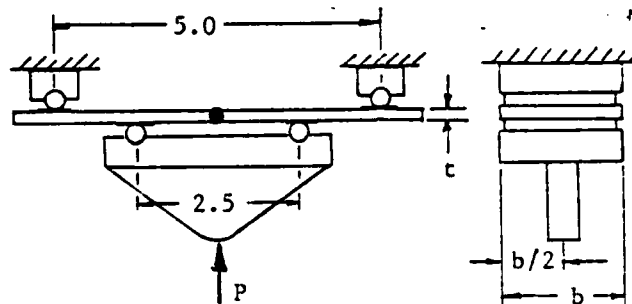
TEST NO. <u>2991</u>	ENGINEERING LABORATORY	TEST SPECIFICATION <u>RMITTP00016A</u>							
WORK ORDER <u>444-11-C-40</u>	TEST REPORT								
REQUESTER <u>E. WEBER</u>									
BENDING FATIGUE									
TEST TEMPERATURE <u>Room</u> °F									
 <div style="position: absolute; top: 350px; right: 100px;">         MAT'L. <u>5456 Al</u> </div> <div style="position: absolute; top: 410px; right: 100px;"> <math display="block">F'_s = \frac{1.875 P}{t^2}</math> </div>									
SPEC. NO.	b (in)	h (in)	DATE	F-FACE R-RIGHT IN TENSILE	AREA (in <sup>2</sup> )	CYCLING DATA		KFCYCLES TO FAILURE	REMARKS
						P max (lb)	F' s (KSI)		
20-1-1	2.000	.314	9/1	F		947	18	2164	NO FAILURE
-1-2	2.000	.314	9/5	F		1052	20	1358	NO FAILURE
-1-3	2.004	.313	9/6	F		1204	23	1893	NO FAILURE
-1-4	1.999	.312	9/11	R		1193	23	189	FAILED
-1-5	2.020	.313	9/28	F		1045	20	2625	NO FAILURE
-1-6	1.999	.312	9/28	F		1193	23	630	FAILED
-3-1	2.003	.314	10/2	F		1211	23	62	NO FAILURE
-3-2	2.005	.316	10/3	F		1442	27	2242	NO FAILURE
-3-3	2.004	.313	10/3	F		1571	30	1000	NO FAILURE
-3-4	2.002	.310	10/2	R		1180	23	7014	NO FAILURE
-3-5	2.005	.310	10/4	R		1387	27	1058	FAILED
-3-6	2.001	.311	10/4	R		1548	30	369	FAILED
-5-1	2.003	.313	10/6	R		1570	30	120	FAILED
-5-2	2.005	.311	10/8	R		1396	27	467	FAILED
TESTED BY: <u>WOODS / WIDMER</u>						DATE: <u>8-17-79</u>			

TER073

TEST NO.	2901	ENGINEERING LABORATORY	TEST SPECIFICATION
WORK ORDER	444-11-0-40		RMI TTP00016A
REQUESTER	F. WEBER		SPECIMEN DWG. NO.

## BENDING FATIGUE

TEST TEMPERATURE ROOM °F



MAT'L. 5456 Al

$$F'_s = \frac{1.875 P}{t^2}$$

SPEC. NO.	b (in)	h (in)	DATE	F- R- IN TENSILE	AREA (in) <sup>2</sup>	CYCLING DATA			K CYCLES TO FAILURE	REMARKS
						P max (lbs.)		F' (ksi)		
08053	2.002	.310	10/23	R		1385		27	349	FAILED
-9-1	2.000	.314	9/12	R		1209		23	393	FAILED STRAINED
-9-2	2.000	.314	9/11	R		1209		23	1109	FAILED
-9-3	2.000	.314	9/13	R		1209		23	1010	FAILED
-11-1	2.004	.313	7/9/79	R		1308		25	2260	NO FAILURE
-11-2	2.003	.312	7/9/79	R		1558		30	139	FAILED
-11-3	2.002	.312	7/12/79	R		1403		27	5028	NO FAILURE
-13-1	2.001	.314	8/7/79	R		1578		30	271	FAILED
-13-2	2.001	.313	8/8/79	R		1464		28	1333	NO FAILURE
-13-3	2.000	.313	8/9/79	R		1568		30	533	FAILED
-15-1	2.000	.192	10/18	R		492		25	2432	FAILED
-15-2	2.000	.193	10/18	R		596		30	235	FAILED
-15-3	2.001	.193	10/18	R		538		27	11,263	NO FAILURE
-101-1	2.001	.313	7/25	F		1255		24	1034	FAILED
101-2	1.976	.272	9/21	F		1347		26	93	FAILED
101-3	1.995	.312	10/5	F		1243		24	604	FAILED

TER073

TITLG. NO. <div style="text-align: center; font-size: 1.2em;">2991</div>	<b>ENGINEERING LABORATORY</b>  <b>TEST REPORT</b>	TEST SPECIFICATION <b>RMI TTPOOD16A</b> SPECIMEN DWG. NO.  <div style="font-size: 1.5em; text-align: center;">RERUNS</div>
WORK ORDER <div style="font-size: 1.2em;">444-11-0-40</div>		
REQUESTER <div style="font-size: 1.2em;">F. WEBER</div>		

**BENDING FATIGUE**

TEST TEMPERATURE Room ° F

---

MAT'L. SAE 52100

$$F'_S = \frac{1.875 P}{t^2}$$

SPEC. NO.	b (in)	n (in)	DATE	R-Ratio	AREA (sq in)	CYCLING DATA		KEY CYCLES TO FAILURE	REMARKS
						P MAX (lbs.)	F' (KSI)		
020-1-1	2.000	.314	9/14	R		1209	23	292	FAILED
-1-2	2.000	.314	9/14	R		1104	21	246	FAILED
+3	2.004	.313	9/8	F		1204	23	905	ROLLERS ONLY
-3-1	2.003	.314	10/2	F		1317	25	2426	NO FAILURE
3-2	2.005	.316	1/18	F		1215	34	96	FAILED
3-3	2.009	.313	1/19	F		1285	36	42	FAILED
11-3	2.004	.313	8/6	R		1569	30	7500*	NO FAILURE
11-1	2.002	.313	8/10	R		1571	30	2442	NO FAILURE
3-4	2.002	.310	1/18	R		1642	32	111	FAILED
3-1	2.003	.314	1/18	F		1683	32	149	FAILED
* RESULT IS NOT VALID DUE TO MALFUNCTIONING OF MACHINE									

TESTED BY: WIDMER/WOODS

DATE: 8-17-77

APPENDIX D / STIFFENED PANEL TENSILE TEST DATA

TABLE OF CONTENTS

	Page
1 / STATIC TEST DATA . . . . .	B-520
2 / FATIGUE TEST DATA . . . . .	B-538

LIST OF ILLUSTRATIONS

Figure Number		Page
D-1	Strain Gage Identifications, Locations and Orientations on Stiffened Panel Static Tensile Test Specimens . . . . .	B-521
D-2	Annotated Example of Data Printout . . . . .	B-522
D-3	Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens . . . . .	B-540

PRECEDING PAGE BLANK-NOT FILMED

## 1 / STATIC TEST DATA

This section contains all recorded test data for the single bay length stiffened panel static tensile test specimens. The data set presented for each specimen starts with an autographic plot of applied load versus axial strain averaged over a 10-inch gage length of the panel center section. Tabulations of the recorded strain gage readings for all applied load increments and calibration checks complete the data set presented for each specimen. Preceding the first data set are an illustration of strain measurement locations on the specimens correlated to data channel numbers, Figure D-1, and an annotated example of data printout, Figure D-2.

## Index of Data Sets

Specimen Number	Page
TT802022-3-S1 . . . . .	D-4
TT802022-3-S2 . . . . .	D-8
TT802022-201-S1 . . . . .	D-12
TT802022-201-S2 . . . . .	D-16



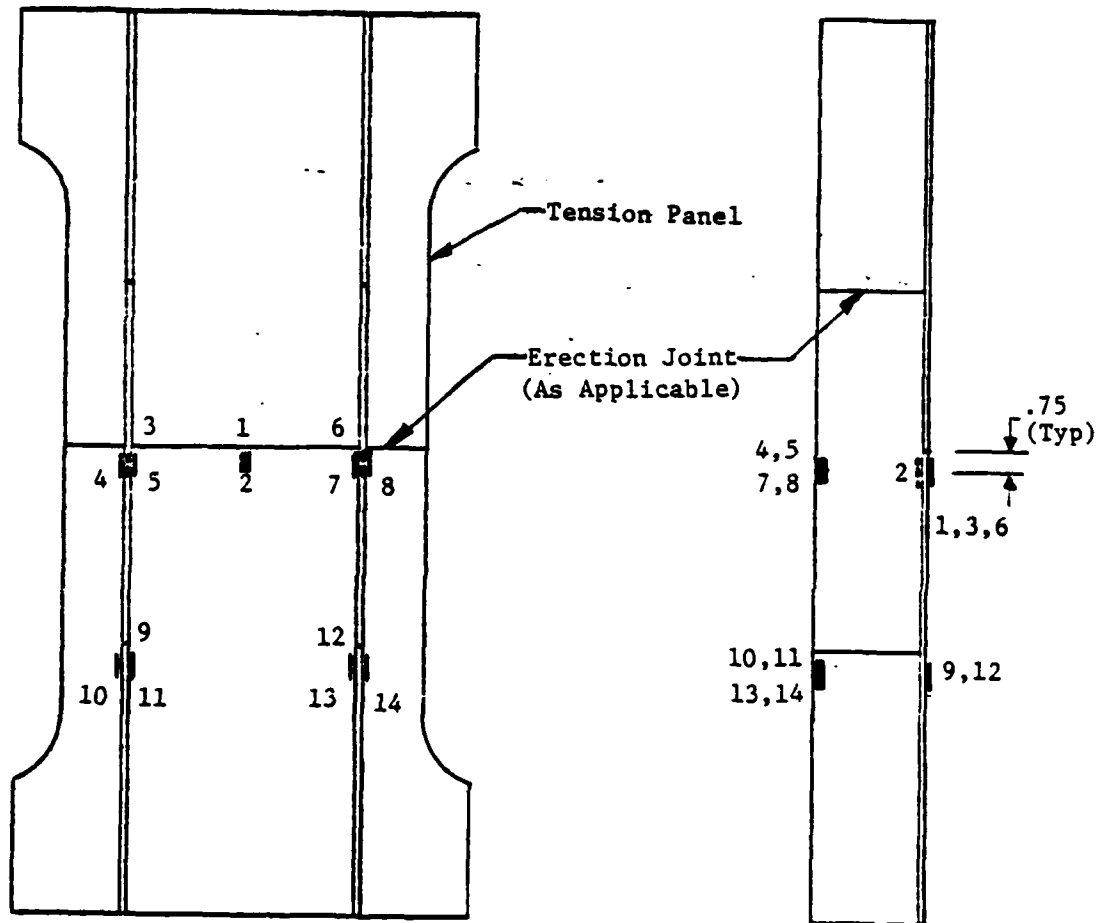
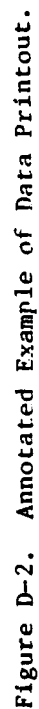
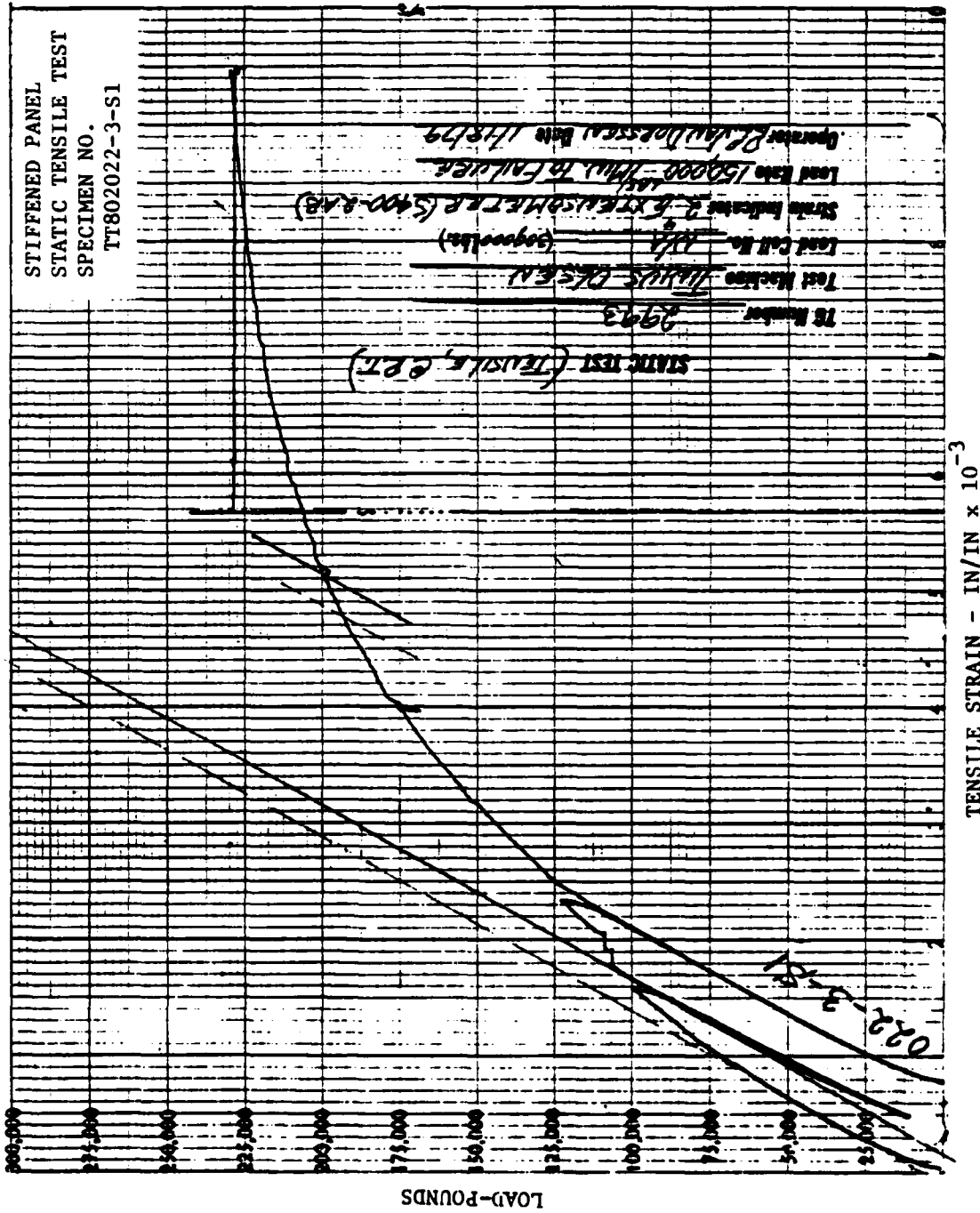


Figure D-1. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Static Tensile Test Specimens.





1/18/79

14-02559  
13-01760  
12-01064  
11-01924  
10-02341  
09-00133  
08-02235  
07-02511  
06-01322  
05-02035  
04-02082  
03-01297  
02-01471  
01-01176  
00917070  
00223510075

14+0116A  
13+00593  
12+00020  
11+00168  
10+00264  
09+00034  
08+00101  
07+00097  
06+00436  
05+00067  
04+00077  
03+00093  
02+00230  
01+00211  
0025090  
02235100

**Perm. Set Check**

Test Start	Load - kips
11:00	0.00
11:05	0.00
11:10	0.00
11:15	0.00
11:20	0.00
11:25	0.00
11:30	0.00
11:35	0.00
11:40	0.00
11:45	0.00
11:50	0.00
11:55	0.00
12:00	0.00
12:05	0.00
12:10	0.00
12:15	0.00
12:20	0.00
12:25	0.00
12:30	0.00
12:35	0.00
12:40	0.00
12:45	0.00
12:50	0.00
12:55	0.00
13:00	0.00
13:05	0.00
13:10	0.00
13:15	0.00
13:20	0.00
13:25	0.00
13:30	0.00
13:35	0.00
13:40	0.00
13:45	0.00
13:50	0.00
13:55	0.00
14:00	0.00
14:05	0.00
14:10	0.00
14:15	0.00
14:20	0.00
14:25	0.00
14:30	0.00
14:35	0.00
14:40	0.00
14:45	0.00
14:50	0.00
14:55	0.00
15:00	0.00
15:05	0.00
15:10	0.00
15:15	0.00
15:20	0.00
15:25	0.00
15:30	0.00
15:35	0.00
15:40	0.00
15:45	0.00
15:50	0.00
15:55	0.00
16:00	0.00
16:05	0.00
16:10	0.00
16:15	0.00
16:20	0.00
16:25	0.00
16:30	0.00
16:35	0.00
16:40	0.00
16:45	0.00
16:50	0.00
16:55	0.00
17:00	0.00
17:05	0.00
17:10	0.00
17:15	0.00
17:20	0.00
17:25	0.00
17:30	0.00
17:35	0.00
17:40	0.00
17:45	0.00
17:50	0.00
17:55	0.00
18:00	0.00
18:05	0.00
18:10	0.00
18:15	0.00
18:20	0.00
18:25	0.00
18:30	0.00
18:35	0.00
18:40	0.00
18:45	0.00
18:50	0.00
18:55	0.00
19:00	0.00
19:05	0.00
19:10	0.00
19:15	0.00
19:20	0.00
19:25	0.00
19:30	0.00
19:35	0.00
19:40	0.00
19:45	0.00
19:50	0.00
19:55	0.00
20:00	0.00
20:05	0.00
20:10	0.00
20:15	0.00
20:20	0.00
20:25	0.00
20:30	0.00
20:35	0.00
20:40	0.00
20:45	0.00
20:50	0.00
20:55	0.00
21:00	0.00
21:05	0.00
21:10	0.00
21:15	0.00
21:20	0.00
21:25	0.00
21:30	0.00
21:35	0.00
21:40	0.00
21:45	0.00
21:50	0.00
21:55	0.00
22:00	0.00
22:05	0.00
22:10	0.00
22:15	0.00
22:20	0.00
22:25	0.00
22:30	0.00
22:35	0.00
22:40	0.00
22:45	0.00
22:50	0.00
22:55	0.00
23:00	0.00

0  
1401128  
1301130  
1201130  
1101128  
1001129  
0901129  
0801126  
0701128  
0601129  
0501125  
0401127  
0301131  
0201130  
0101130  
00003410  
0023110000

Strain Gage  
R Cal

14+016491	14+03945
13+01130	13+02703
12+00694	12+01465
11+01299	11+02649
10+01581	10+03196
09+00724	09+01561
08+01519	08+02769
07+01572	07+02663
06+00201	06+02061
05+01401	05+02596
04+01434	04+02659
03+00624	03+01669
02+00528	02+02109
01+00726	01+01731
00916370	00917360
00223510040	00223510100

14-02029  
13-01198  
12-00309  
11-00877  
10-01118  
09-00379  
08-00703  
07-00733  
06-00810  
05-00698  
04-00709  
03-00297  
02-00668  
01-00549  
00-934150  
+0223510025

Panel TT802022-3-S1

1/18/79

14+02779  
13+01743  
12+00661  
11+01521  
10+01885  
09+00751  
08+01426  
07+01478  
06+01209  
05+01390  
04+01421  
03+00723  
02+01132  
01+00923  
0093440  
\*0223510050

14+04168  
13+02790  
12+01425  
11+02709  
10+03267  
09+01552  
08+02770  
07+02862  
06+02080  
05+02625  
04+02689  
03+01643  
02+02113  
01+01735  
00935360  
\*0223510100

14+06672  
13+04327  
12+01284  
11+03227  
10+03648  
09+01712  
08+02592  
07+02684  
06+02475  
05+02614  
04+02686  
03+01874  
02+02295  
01+01915  
00946440  
\*0223510100

14+13009  
13+09997  
12+01934  
11+06077  
10+06662  
09+03146  
08+03358  
07+03470  
06+03998  
05+03526  
04+03443  
03+03417  
02+03624  
01+03093  
00947530  
\*0223510150

14+03501  
13+02280  
12+01042  
11+02146  
10+02615  
09+01150  
08+02123  
07+02196  
06+01643  
05+02045  
04+02043  
03+01182  
02+01625  
01+01327  
00935160  
\*0223510075

14+03719  
13+02101  
12+00171  
11+00676  
10+00709  
09+00179  
08+00258  
07+00248  
06+00623  
05+00051  
04+00058  
03+00126  
02+00404  
01+00376  
00942640  
\*0223510000

14+07319  
13+04439  
12+01670  
11+03604  
10+04239  
09+02118  
08+03175  
07+03278  
06+02931  
05+03160  
04+03244  
03+02345  
02+02791  
01+02339  
00947240  
\*0223510125

14+07677  
13+01133  
12+02559  
11+11071  
10+07952  
09+04263  
08+03426  
07+03543  
06+05539  
05+03731  
04+03889  
03+04788  
02+04465  
01+03952  
00948340  
\*0223510175

Perm. Set Check  
0

1/18/79

Panel TT802022-3-S1

14+04396  
13+00963  
12+03697  
11+12635  
10+08064  
09+05017  
08+03322  
07+03430  
06+08138  
05+03757  
04+03955  
03+07088  
02+05611  
01+04918  
00952480  
+0223510200

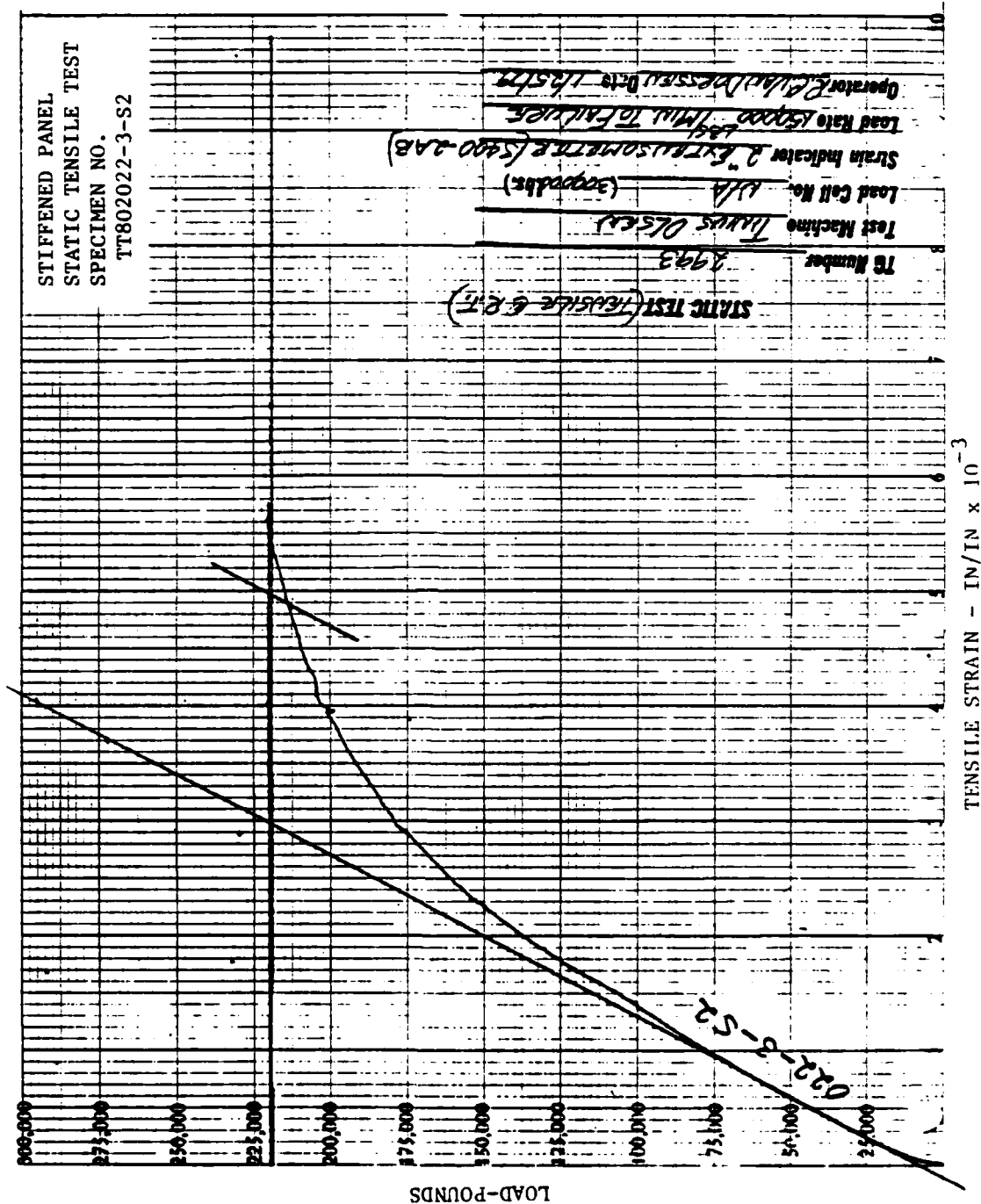
14+03653  
13+00928  
12+05150  
11+12218  
10+03541  
09+06150  
08+03507  
07+03673  
06+12294  
05+04261  
04+04604  
03+11559  
02+06898  
01+07208  
00954480  
+0223510220

14+03719  
13+00900  
12+10593  
11+04745  
10+02994  
09+16747  
08+06573  
07+08705  
06+04477  
05+06954  
04+14850  
03+03310  
02+01599  
01+09778  
00957310  
+0223510240

14+03786  
13+00939  
12+04520  
11+12131  
10+03887  
09+05642  
08+03293  
07+03413  
06+09922  
05+03771  
04+04013  
03+08489  
02+06701  
01+05576  
00954090  
+0223510210

14+03703  
13+00915  
12+07640  
11+07946  
10+03067  
09+06913  
08+04279  
07+04571  
06+15409  
05+07431  
04+07952  
03+15009  
02+05662  
01+11076  
00955280  
+0223510230

14+03754  
13+00896  
12+09930  
11+04719  
10+02995  
09+17662  
08+04175  
07+04219  
06+04299  
05+02517  
04+14522  
03+03156  
02+01503  
01+09378  
00958090  
+0223510245  
End of Test



Sheet 1 of 3

Panel TT802022-3-S2 1/25/79

14+00001	14+00583	14+01704	14+03300
13+00000	13+00629	13+01676	13+03729
12+00000	12+00257	12+00493	12+01712
11+00000	11+00702	11+02449	11+0273
10+00001	10+00529	10+01614	10+06449
09+00001	09+00244	09+00788	09+01263
08+00001	08+00503	08+01400	08+02212
07+00001	07+00573	07+01579	07+02482
06+00001	06+00309	06+01034	06+02177
05+00001	05+00554	05+01571	05+02254
04+00000	04+00545	04+01544	04+02216
03+00001	03+00309	03+01281	03+02803
02+00002	02+00321	02+01084	02+02112
01+00002	01+00294	01+00995	01+02112
0149410	01506230	01567150	01509030
0223520	022352025	022352075	0223520125
14+00000	Load-Kips		
01449400			
0223520000			
Test Start			
0			
14+01421	14+01115	14+02381	14+05299
13+01417	13+01216	13+02508	13+04747
12+01418	12+00650	12+01318	12+02099
11+01417	11+01420	11+05116	11+16276
10+01419	10+01042	10+02690	10+11345
09+01417	09+00511	09+01050	09+01724
08+01417	08+00956	08+01806	08+02509
07+01418	07+01083	07+02033	07+02411
06+01417	06+00662	06+01565	06+02976
05+01417	05+01080	05+01503	05+02466
04+01420	04+01061	04+01947	04+02427
03+01419	03+00659	03+01402	03+03783
02+01417	02+00679	02+01569	02+02705
01+01417	01+00623	01+01454	01+02574
01449460	01506500	01567480	01509410
0223520000	0223520050	0223520100	0223520150
Strain Gage			
R Cal			



Panel TT802022-3-S2

1/25/79

14+07497  
13+00590  
12+03543  
11+04545  
10+02430  
09+04898  
08+02619  
07+02972  
06+05786  
05+02539  
04+02605  
03+07640  
02+04000  
01+04473  
01511320  
+0223520200

14+04422  
13+00510  
12+04895  
11+04202  
10+02513  
09+07320  
08+02661  
07+03064  
06+08996  
05+02746  
04+02735  
03+11327  
02+06470  
01+07607  
01512310  
+0223520230

14+066293  
13+00457  
12+14498  
11+04049  
10+02366  
09+05974  
08+09070  
07+09766  
06+02775  
05+07380  
04+07207  
03+20370  
02+17340  
01+03456  
01514150  
+0223520240

14+07442  
13+00439  
12+12213  
11+03987  
10+02328  
09+05230  
08+06846  
07+04204  
06+02625  
05+17128  
04+02005  
03+29796  
02+06136  
01+02611  
01515360  
+0223520260

14+07497  
13+00590  
12+03543  
11+04545  
10+02430  
09+04898  
08+02619  
07+02972  
06+05786  
05+02539  
04+02605  
03+07640  
02+04000  
01+04473  
01511320  
+0223520200

14+04791  
13+00471  
12+07420  
11+04104  
10+02463  
09+10098  
08+03225  
07+03695  
06+11535  
05+03468  
04+03516  
03+13940  
02+09506  
01+05198  
01513310  
+0223520230

14+05490  
13+00432  
12+14563  
11+04000  
10+02311  
09+04727  
08+10001  
07+10580  
06+02599  
05+09831  
04+10196  
03+21920  
02+18234  
01+02664  
01515670  
+0223520250

14+06523  
13+00484  
12+08655  
11+03812  
10+02272  
09+04920  
08+04042  
07+03481  
06+02593  
05+16624  
04+01997  
03+28130  
02+04933  
01+01926  
01516470  
+0223520270

Panel TT802022-3-S2 1/25/79

14+07369  
13+00489  
12+09289  
11+03784  
10+02262  
09+05428  
08+02651  
07+03441  
06+02608  
05+03698  
04+01914  
03+31504  
02+04173  
01+01208  
01517460  
+0223520380

14+07752  
13+00446  
12+06322  
11+03494  
10+02175  
09+04244  
08+02505  
07+03510  
06+02623  
05+03631  
04+01519  
03+12594  
02+04098  
01+01194  
01534320  
+0223520390

14+09444  
13+00389  
12+04428  
11+03154  
10+02100  
09+04116  
08+02444  
07+03319  
06+02598  
05+03586  
04+01822  
03+11748  
02+03874  
01+01139  
016065701  
+0223520295

14+05147  
13+00403  
12+04340  
11+03070  
10+02118  
09+02855  
08+02457  
07+03307  
06+02606  
05+03629  
04+01601  
03+10630  
02+03852  
01+01181  
01617160  
+0223520302

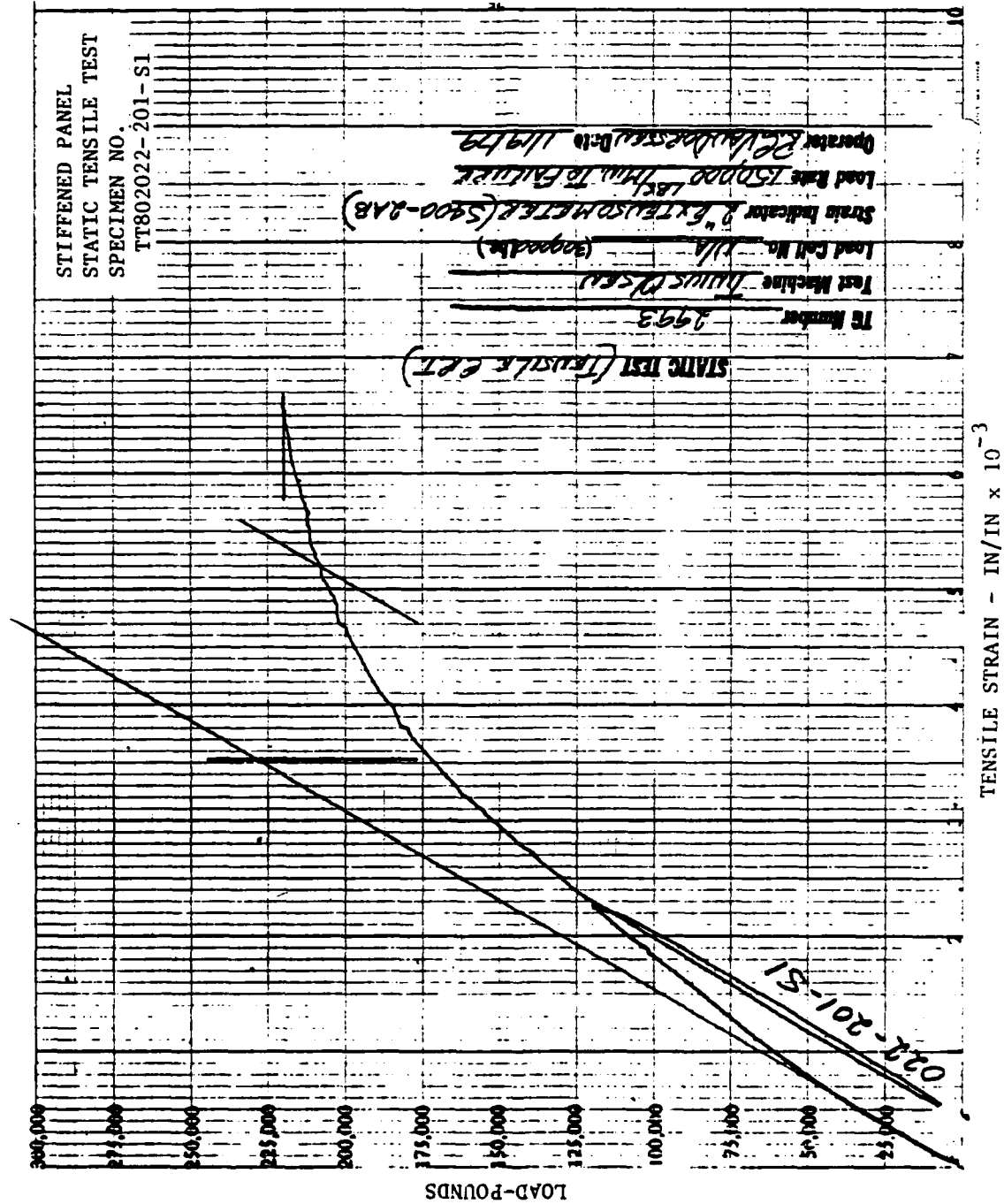
302K

Test Machine Limit

14+07049  
13+00494  
12+07427  
11+03753  
10+02235  
09+04499  
08+02465  
07+03534  
06+02608  
05+03502  
04+01905  
03+16088  
02+04106  
01+01213  
01519090  
+0223520388

14+06496  
13+00451  
12+06019  
11+03495  
10+02174  
09+04000  
08+02450  
07+03505  
06+02623  
05+03629  
04+01915  
03+12464  
02+04099  
01+01198  
01535060  
+0223520293

14+08519  
13+00407  
12+04430  
11+03156  
10+02087  
09+04165  
08+02443  
07+03524  
06+02606  
05+03593  
04+01830  
03+10983  
02+03884  
01+01153  
01607180  
+0223520300



Panel TT802022-201-S1 1/19/79

14-00001  
13-00001  
12-00000  
11-00000  
10-00002  
09-00001  
08-00002  
07-00002  
06-00004  
05-00001  
04-00003  
03-00001  
02-00003  
01-00001  
0152536  
\*2220151000  
Test Start  
0

14-00251  
13-00192  
12-00049  
11-00266  
10-00165  
09-00073  
08-00227  
07-00222  
06-00006  
05-00240  
04-00211  
03-00406  
02-00399  
01-00377  
01531260  
\*22201510251  
Load - kips

14-01285  
13-01150  
12-00163  
11-01310  
10-00995  
09-00366  
08-01142  
07-01144  
06-03417  
05-01222  
04-01093  
03-03065  
02-02373  
01-02280  
01535430  
\*2220151120

14-01428  
13-01430  
12-01427  
11-01428  
10-01424  
09-01426  
08-01426  
07-01428  
06-01425  
05-01427  
04-01425  
03-01428  
02-01425  
01-01427  
01525400  
\*2220151000

14-00517  
13-00447  
12-00095  
11-00520  
10-00391  
09-00156  
08-00471  
07-00464  
06-01144  
05-00507  
04-00449  
03-00479  
02-00847  
01-00806  
01531510  
\*2220151050

14-01045  
13-00925  
12-00153  
11-01048  
10-00608  
09-00296  
08-00441  
07-00926  
06-02778  
05-00983  
04-00670  
03-02527  
02-01504  
01-01830  
01533130  
\*2220151100

14-00045  
13-00028  
12-00063  
11-00055  
10-00039  
09-00020  
08-00205  
07-00201  
06-01482  
05-00152  
04-00201  
03-01060  
02-00403  
01-00407  
01537160  
\*2220151000  
Perm Set Check  
0

Strain Gage  
RCal

Panel TT802022-201-S1 1/19/79

14*01300	14*01826	14*02403	14*03214
13*01150	13*01625	13*02117	13*02905
12*00169	12*00176	12*00188	12*00308
11*01314	11*01862	11*02483	11*03210
10*00497	10*01410	10*01490	10*02398
09*00356	09*00482	09*00593	09*00807
08*01190	08*01664	09*01948	08*03137
07*01170	07*01637	07*01903	07*03068
06*03452	06*05224	06*08863	06*12868
05*01242	05*01767	05*02146	05*03225
04*01111	04*01610	04*01962	04*03026
03*03054	03*04544	03*07481	03*14817
02*02372	02*03325	02*04847	02*03968
01*02276	01*03128	01*04414	01*10031
01540250	01541220	01542450	01546010
*2220151120	*2220151160	*2220151200	*2220151230

14*01553	14*02106	14*02801	14*03627
13*01379	13*01881	13*02465	13*03330
12*00175	12*00170	12*00181	12*00241
11*01571	11*02164	11*02888	11*03639
10*01163	10*01659	10*02168	10*02744
09*00421	09*00537	09*00703	09*00952
08*01422	08*01848	08*02254	08*08674
07*01396	07*01812	07*02192	07*08465
06*04275	06*06603	06*12931	06*03975
05*01466	05*01497	05*02437	05*07987
04*01343	04*01828	04*02230	04*08228
03*03760	03*05635	03*11295	03*21664
02*02835	02*03840	02*05022	02*03229
01*02699	01*03549	01*07260	01*02253
01540550	01541550	01543530	01546230
*2220151140	*2220151180	*2220151220	*2220151280

Sheet 3 of 3

1/19/79

Panel TT802022-201-S1

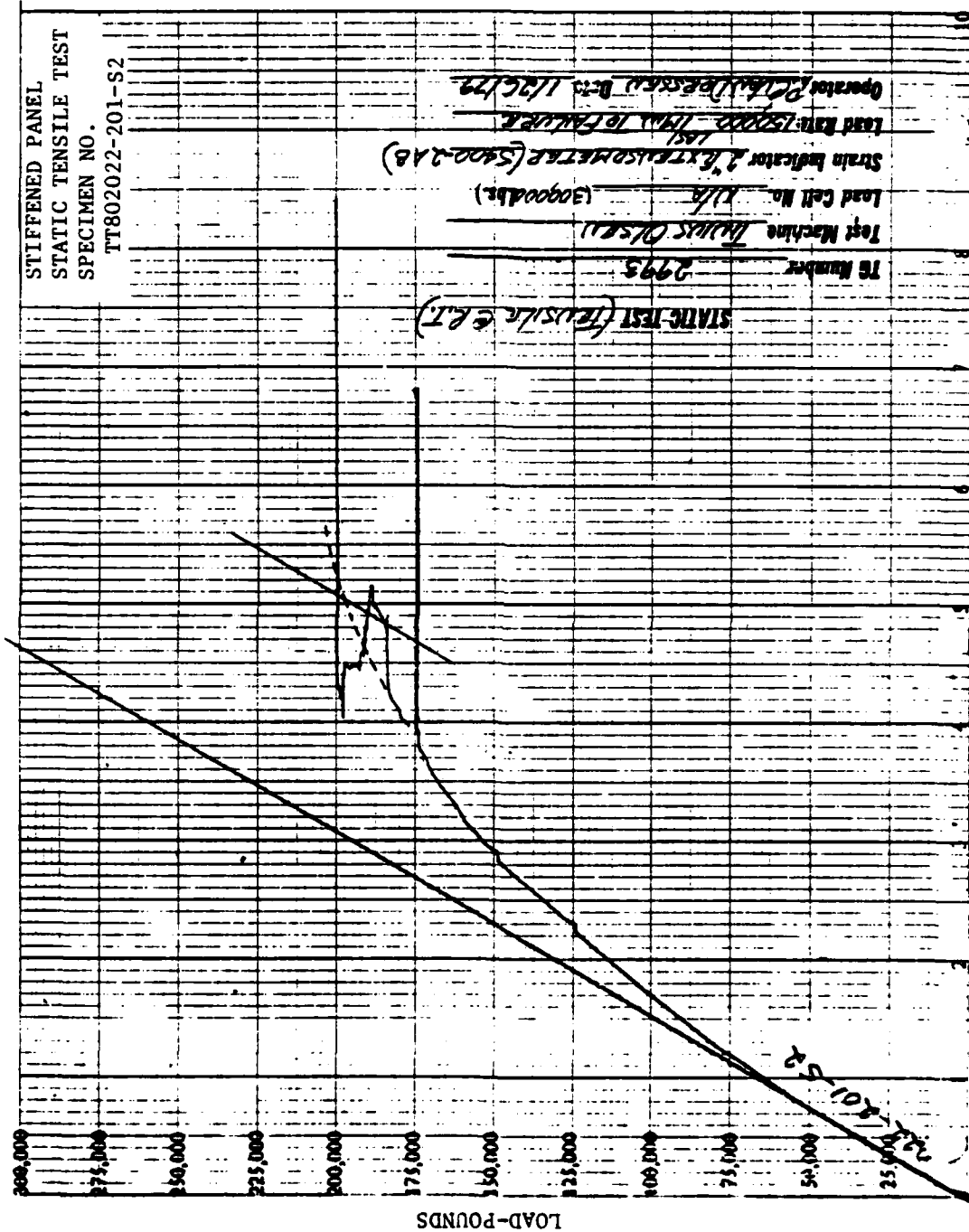
14\*01735  
 13\*01635  
 12\*00253  
 11\*01908  
 10\*00885  
 09\*01197  
 08\*05462  
 07\*05612  
 06\*03887  
 05\*01921  
 04\*13966  
 03\*05587  
 02\*03039  
 01546330  
 \*22201512455

245.5 K

14\*00999  
 13\*00923  
 12\*00138  
 11\*01040  
 10\*00086  
 09\*00394  
 08\*04952  
 07\*05086  
 06\*03567  
 05\*01665  
 04\*10194  
 03\*05218  
 02\*01463  
 01\*01744  
 01548050  
 \*2220151000

Post Failure

0



Panel TT802022-201-S2 1/26/79

14*00001	14*00285	14*00871	14*01432
13*00000	13*00127	13*00492	13*01019
12*00001	12*00070	12*00177	12*00262
11*00001	11*00249	11*00713	11*01194
10*00001	10*00125	10*00670	10*01165
09*00000	09*00140	09*00286	09*00433
08*00001	08*00269	08*00633	08*01406
07*00001	07*00293	07*00851	07*01420
06*00000	06*00381	06*01240	06*02433
05*00000	05*00317	05*00503	05*01471
04*00000	04*00301	04*00652	04*01392
03*00000	03*00370	03*00852	03*02731
02*00001	02*00371	03*01436	02*02255
01*00001	01*00374	02*01227	01*02286
01511240	01519420	01520460	01521420
*2220152000	*2220152045	*2220152075	*2220152125
Test Start	Load - kips		
0			
14*01430	14*00554	14*01144	14*01767
13*01428	13*00267	13*00741	13*01308
12*01426	12*00131	12*00226	12*00269
11*01428	11*00494	11*00636	11*01491
10*01428	10*00376	10*00906	10*01452
09*01428	09*00266	09*00358	09*00491
08*01426	08*00576	08*01100	08*01766
07*01424	07*00586	07*01118	07*01778
06*01424	06*00785	06*02150	06*03754
05*01424	05*00631	05*01169	05*01419
04*01424	04*00600	04*01102	04*01726
03*01428	03*00737	03*02156	03*03439
02*01427	02*00771	02*01732	02*02432
01*01428	01*00775	01*01739	01*02832
01511300	01520190	01521170	01522160
*2220152000	*2220152050	*2220152100	*2220152150
Strain Gage			
R Cal			



Panel TT802022-201-S2 1/26/79

14*02105	14*03106	14*01904
13*01610	13*02458	13*00484
12*00277	12*00472	12*00713
11*01614	11*02799	11*03376
10*01748	10*02240	10*03089
09*00528	09*00611	09*00601
08*02104	08*02266	08*01488
07*02121	07*02288	07*07347
06*04796	06*06092	06*02396
05*02150	05*02598	05*02637
04*02050	04*02489	04*01017
03*04405	03*07554	03*02495
02*03627	02*06819	02*01446
01*03380	01*05303	01*01987
01522400	01524580	01526380
*2220152179	*2220152210	*2220152249

14*02455	14*03485	14*01373
13*01496	13*02793	13*00286
12*00316	12*00586	12*00077
11*02159	11*03216	11*01293
10*02085	10*03152	10*00197
09*00588	09*00768	09*00091
08*02295	08*07677	08*01140
07*02312	07*08848	07*07626
06*06675	06*02538	06*02222
05*02455	05*10253	05*01817
04*02347	04*01368	04*00842
03*06205	03*03156	03*02584
02*05072	02*01437	02*01386
01*04327	01*02605	01*01533
01523540	01526140	01534500
*2220152200	*2220152240	*2220152000

Post Failure  
0

## 2 / FATIGUE TEST DATA

This section contains tabulations of all recorded data from the static tensile strain survey tests conducted on selected stiffened panel specimens prior to the start of fatigue testing. In general, such strain surveys were conducted only on those specimens which exceeded the specified distortion limits based on independent measurements made by the test laboratory. The peak localized strain recorded for each specimen was then used as a basis to establish the nominal stress level for fatigue cycling. The peak strain magnification factor for each survey load increment is also tabulated with the recorded strain readings in this section.

Figure D-3, which precedes the tabulated strain data, documents the identifications, locations and orientations of all strain gages installed in various patterns on the stiffened panel fatigue test specimens.

## Index of Strain Survey Data Sets

Specimen Number	Page
TT802022-3-F1 . . . . .	B-542
TT802022-3-F2 . . . . .	B-542
TT802022-3-F3 . . . . .	B-543

TER073

Specimen Number	Page
TT802022-11-F1 . . . . .	B-543
TT802022-11-F2 . . . . .	B-543
TT802022-11-F3 . . . . .	B-544
TT802022-103-F1 . . . . .	B-544
TT802022-103-F2 . . . . .	B-544
TT802022-103-F3 . . . . .	B-545
TT802022-107-F1 . . . . .	R-545
TT802022-107-F2 . . . . .	B-546
TT802022-107-F3 . . . . .	B-546
TT802022-201-F3 . . . . .	B-546
TT802022-203-F1 . . . . .	B-547
TT802022-203-F2 . . . . .	B-547
TT802022-203-F3 . . . . .	B-548
TT802022-205-F1 . . . . .	B-548
TT802022-205-F2 . . . . .	B-549
TT802022-205-F3 . . . . .	B-549

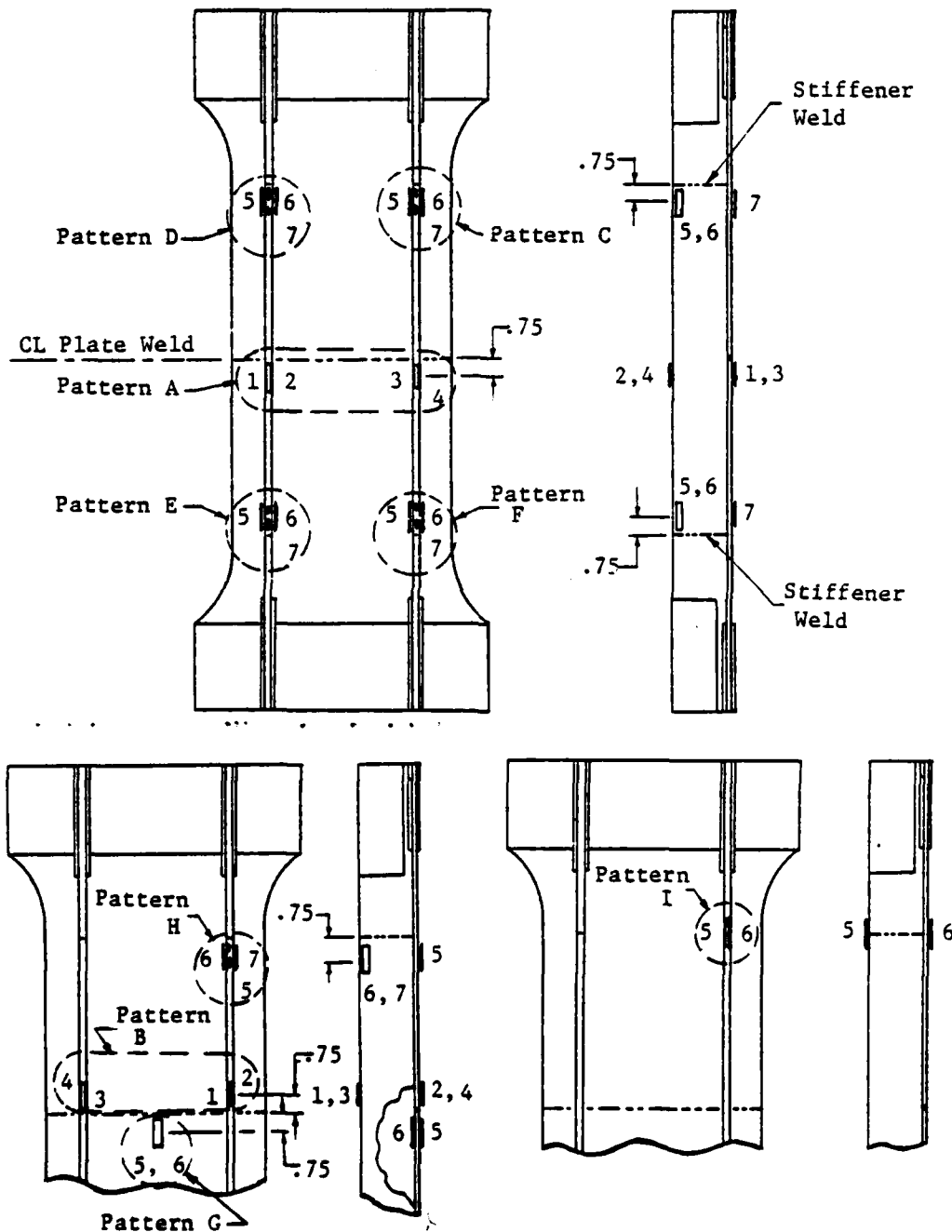


Figure D-3. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens. (Sheet 1 of 2).

TER073

STIFFENED PANEL SPECIMEN NO.	APPLICABLE STRAIN GAGE PATTERNS from Sheet 1
TT802022-3-F1	B, H
TT802022-3-F2	A, C
TT802022-3-F3	A, E
TT802022-5-F1	A
TT802022-5-F2	A
TT802022-11-F1	A, H
TT802022-11-F2	A, F
TT802022-11-F3	A, D
TT802022-103-F1	A, D
TT802022-103-F2	A, D
TT802022-103-F3	A, C
TT802022-107-F1	A, C
TT802022-107-F2	A, C
TT802022-107-F3	A, D
TT802022-201-F1	A, G
TT802022-201-F2	A
TT802022-201-F3	A
TT802022-203-F1	A
TT802022-203-F2	A, D
TT802022-203-F3	A, D
TT802022-205-F1	A, I
TT802022-205-F2	A, E
TT802022-205-F3	A

Figure D-3. Strain Gage Identifications, Locations and Orientations on Stiffened Panel Tensile Fatigue Test Specimens (Sheet 2 of 2).

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-3-F1	6.316	0	-	0	0	0	0	0	0	0
		1.58	1.79	300	100	200	100	83	279	275
		3.17	1.72					185	527	529
		4.75	1.68					291	770	777
		6.33	1.69					402	1017	1037
		7.92						518	1259	1295
		9.50	1.69					652	1505	1555
		11.08	1.69	1520	980	1410	1000	803	1765	1820
		11.88	1.70					892	1904	1964
		3.17	1.72					285	608	646
		0	-	0	200	-80	60	74	112	136
TT802022-3-F2	6.292	11.08	1.79	1350	1000	1250	750	832	1851	1904
		0	-	20	190	-80	160	-	-	-
		0	-	0	5	3	3	0	1	10
		1.59	2.22	105	242	104	257	246	343	74
		3.18	2.13	231	461	221	475	474	659	172
		4.76	2.12	359	682	345	709	710	980	271
		6.36	2.10	486	896	471	937	945	1294	369
		7.95	2.10	620	1102	600	1160	1167	1621	470
		0	-	-10	12	5	23	5	-23	18
		7.95	2.10	628	1081	605	1139	1155	1604	451

\*Reference Figure D-3 for strain gage locations and orientations.

AD-A087 438

ROHR MARINE INC NATIONAL CITY CA  
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)  
MAY 80

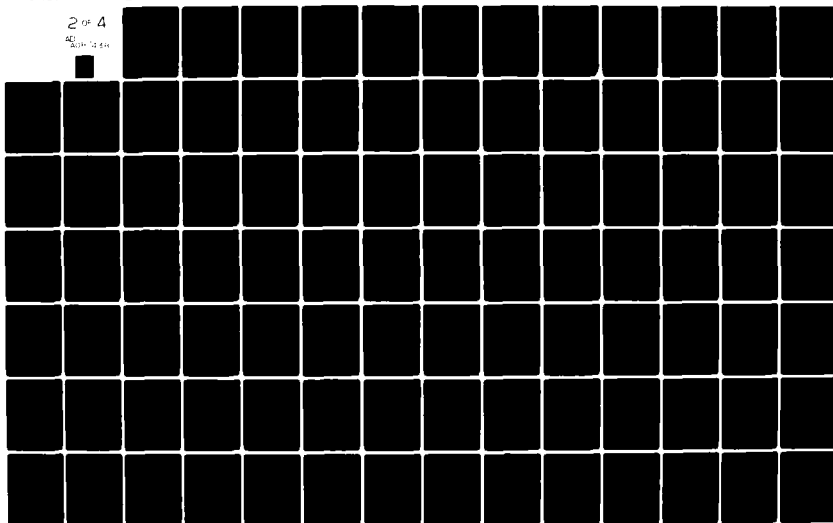
F/G 13/10

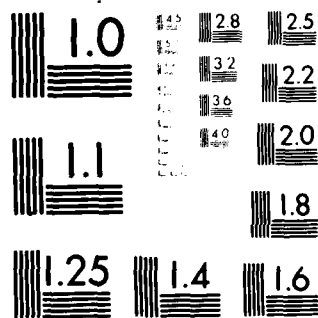
N00024-77-C-2032  
NL

UNCLASSIFIED

2 OF 4

AD-A087 438





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4 <sub>†</sub>	SG 5	SG 6	SG 7
TT802022-3-F3	6.304	0	-					0	0	
		1.59	1.3					200	170	
		3.17	1.2					370	300	
		4.75	1.3					600	500	
		6.35	1.38					850	700	370
		7.93	1.39					1070	900	
		9.50	1.38					1270	1080	550
		11.10	1.44					1550	1300	650
		0	-					0	0	0
		9.50	1.48					1350	1170	720
		9.50	1.53				1400	1200	770	
TT802022-11-F1	6.279	0	-	3	2	2	3	11	-2	-8
		2.0	2.41	152	252	156	242	163	81	468
		4.0	2.32	326	473	344	447	345	152	902
		6.0	2.25	500	685	540	625	525	225	1311
		8.0	2.19	690	890	730	820	700	300	1704
		0	-	15	-1	41	7	24	-12	40
TT802022-11-F2	6.263	0	-	0	0	0	0	0	0	0
		2	2.74	146	260	141	262	47	532	140
		4	2.76	308	513	301	520	112	1070	280
		5	2.68	394	621	385	627	138	1300	354
		6	2.72	474	750	462	760	174	1582	416
		0	-	4	-2	-5	2	12	12	18
		7	2.76	565	875	547	897	225	1876	490
		0	-	6	-1	-2	10	2	36	10

\*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch									
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7		
TT802022-11-F3	6.316	0	-	0	0	0	0	0	0	0	0	0
		2	2.75	155	264	147	262	533	55	162	55	162
		4	2.54	327	492	311	497	985	98	318	98	318
		6	2.43	511	713	493	722	1417	137	498	137	498
		7	2.39	611	814	582	822	1624	161	583	161	583
		8	2.37	708	918	680	938	1841	186	672	186	672
		0	-	21	-16	26	-15	22	10	27	10	27
TT802022-103-F1	6.325	0	-	0	0	0	0	0	0	0	0	0
		2	.99	191	161	202	143	182	193	168	193	168
		4	1.07	380	355	400	313	386	414	334	414	334
		6	1.13	573	556	602	492	598	65C	508	65C	508
		8	1.17	766	761	814	645	816	908	682	908	682
		10	1.21	958	975	1031	779	1041	1178	854	1178	854
		0	-	-15	62	23	-53	87	124	-19	124	-19
TT802022-103-F2	6.345	0	-	0	0	0	0	0	0	0	0	0
		2	1.26	190	238	162	219	257	245	172	245	172
		4	1.20	389	417	359	400	474	467	350	467	350
		6	1.21	597	586	559	584	697	702	538	702	538
		8	1.21	812	751	763	758	918	936	735	936	735
		9	1.22	929	834	868	847	1039	1068	835	1068	835
		2	-	222	108	162	218	286	304	198	304	198
		10	1.24	1045	925	969	940	1167	1206	932	1206	932
		2	-	236	203	161	219	305	328	205	328	205
		0	-	46	15	-26	30	63	83	45	83	45

\*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-103-F3	6.302	0	-	0	3	-3	3	0	2	3
		2	1.59	179	236	161	258	286	309	160
		4	1.40	387	380	356	428	504	544	338
		6	1.34	601	520	561	589	722	778	524
		8	1.29	817	660	770	744	934	1000	711
		9	1.28	925	732	877	821	1050	1119	804
		0	-	4	-1	0	10	29	14	-6
		10	1.29	1029	831	981	907	1193	1256	891
		0	-	4	2	6	-10	58	31	- 10

TT802022-107-F1	6.344	0	-	0	0	0	0	0	0	0
		2	1.67	162	248	164	246	324	314	146
		4	1.54	345	451	353	437	596	575	314
		6	1.41	538	639	550	604	823	800	494
		8	1.38	732	814	747	778	1068	1034	673
		9	1.39	839	880	850	869	1212	1171	752
		10	1.39	942	954	947	960	1352	1303	843
		2	-	180	176	187	182	270	259	170
		11	1.40	1042	1044	1045	1063	1494	1436	922
		12	1.41	1145	1133	1149	1156	1637	1566	1030
		2	187	161	191	185	299	273	186	
		0	-	4	-15	7	12	88	61	7

\*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-107-F2	6.311	0	-	0	0	0	0	0	0	0
		2	1.31	190	177	185	175	239	254	159
		4	1.35	380	372	375	372	506	525	313
		6	1.39	576	569	569	571	792	811	477
		8	1.41	775	745	766	761	1072	1098	638
		10	1.40	978	920	975	930	1318	1358	816
		0	-	4	2	2	13	44	68	5
TT802022-107-F3	6.311	0	-	0	0	0	0	0	0	0
		2	2.0	167	262	163	268	388	195	154
		4	1.86	358	441	347	486	721	359	324
		6	1.83	554	628	537	703	1065	531	517
		7	1.80	656	712	635	806	1225	611	620
		8	1.78	758	790	736	905	1386	692	727
		2	-	179	212	172	267	430	208	200
TT802022-201-F3	6.277	9	1.78	861	868	841	1002	1557	777	839
		0	-	10	-6	12	25	94	40	68
		0	-	0	0	0	0	0	0	0
		13.54	1.37	1660	860	1805	925			
		0	-	340	-200	470	-220			
		Δ 0	0	0	0	0	0			
		13.54	1370	1030	1340	1140				
0	0	0	0	0	0					

\*Reference Figure D-3 for strain gage locations and orientations.

Δ Strain gages re-zeroed for repeat run.

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-203-F1	6.317	0	-	0	0	0	0	0		
		1.58	1.10	125	168	123	160			
		3.16	1.08	263	332	258	327			
		4.75	1.07	409	494	400	493			
		6.33	1.06	560	651	549	641			
		7.90	1.06	713	809	703	780			
		9.50	1.05	870	972	858	925			
		11.10	1.07	1023	1150	1003	1096			
		12.65	1.08	1184	1323	1158	1250			
		13.45	1.10	1287	1437	1250	1318			
		0	-	35	58	32	-73			
TT802022-203-F2	6.351	0	-	0	0	0	0	0	0	0
		1.58	1.45	144	168	142	164	150	222	132
		3.15	1.54	296	353	276	347	297	471	256
		4.72	1.58	412	542	416	533	448	726	383
		6.30	1.61	550	729	555	714	600	982	514
		7.87	1.62	693	907	696	899	750	1238	650
		8.65	1.63	765	993	768	988	823	1365	720
		0	-	17	4	6	19	17	9	30
		8.65	1.70	750	1048	753	1042	859	1415	706

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch								
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7	
TT802022-203-F3	6.342	0	-	0	0	0	0	0	0	0	0
		1.58	1.45	113	202	114	195	223	218	100	
		3.15	1.53	246	395	248	394	468	431	205	
		4.73	1.52	380	577	383	589	700	635	318	
		6.31	1.50	532	744	521	782	918	823	441	
		7.88	1.45	686	893	665	961	1111	992	577	
		8.67	1.42	765	966	737	1046	1198	1072	651	
		0	-	12	-55	-15	15	-82	-45	49	
		7.88	1.39	694	860	672	937	1063	946	601	
		0	-	9	-57	-16	+15	-85	-48	49	

TT802022-205-F1	6.316	0	-	0	0	0	0	0	0	
		2	1.16	165	205	170	225	171	174	
		4	1.09	347	395	345	423	330	350	
		6	1.06	535	576	528	617	486	531	
		8	1.02	730	750	710	789	621	713	
		9	1.00	829	779	707	870	687	805	
		10	.98	930	855	902	949	755	894	
		0	-	5	27	-1	24	22	-4	
		11	.99	1026	970	992	1060	844	879	
		12	.99	1123	1056	1089	1154	911	1063	
		0	-	4	-26	-4	29	25	-31	

\*Reference Figure D-3 for strain gage locations and orientations.

Static Loading Strain Survey Results - Stiffened Panel  
Fatigue Test Specimens.

Specimen No.	Section Area (in <sup>2</sup> )	Nominal Stress (ksi)	*Strain Gage Readings - Microinches/inch							
			Max./Nom Stress	SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
TT802022-205-F2	6.306	0	-	0	0	0	0	0	0	0
		2	1.69	166	228	154	247	328	226	160
		4	1.56	346	434	322	452	606	415	323
		6	1.48	536	600	498	647	864	590	500
		8	1.42	730	775	682	826	1099	754	682
		0	-	5	-53	1	12	-4	10	9
		9	1.43	834	861	781	922	1252	848	778
		0	-	4	-58	0	15	14	8	14
		10	1.57	931	952	874	1015	1521	903	877
		0	-	3	-53	2	6	163	-27	22
TT802022-205-F3	6.318	0	-	0	0	0	0			
		2	1.23	166	238	173	217			
		4	1.12	349	434	359	409			
		6	1.08	537	630	551	584			
		8	1.06	725	824	751	736			
		9	1.05	820	917	848	778			
		10	1.04	918	1007	952	836			
		0	-	2	126	20	-26			

\*Reference Figure D-3 for strain gage locations and orientations.

## APPENDIX E / STIFFENED PANEL COMPRESSION TEST DATA

This appendix contains all recorded test data for the stiffened panel compression test specimens. The data set presented for each specimen consists of an autographic plot of applied load versus total compressive deformation and a tabulation of displacement transducer and strain gage readings for calibration and each applied load increment. Preceding the first data set are illustrations of strain and displacement measurement locations correlated to data channel numbers (Figure E-1 and E-2) and an annotated example of data printout (Figure E-3).

PRECEDING PAGE BLANK-NOT FILMED

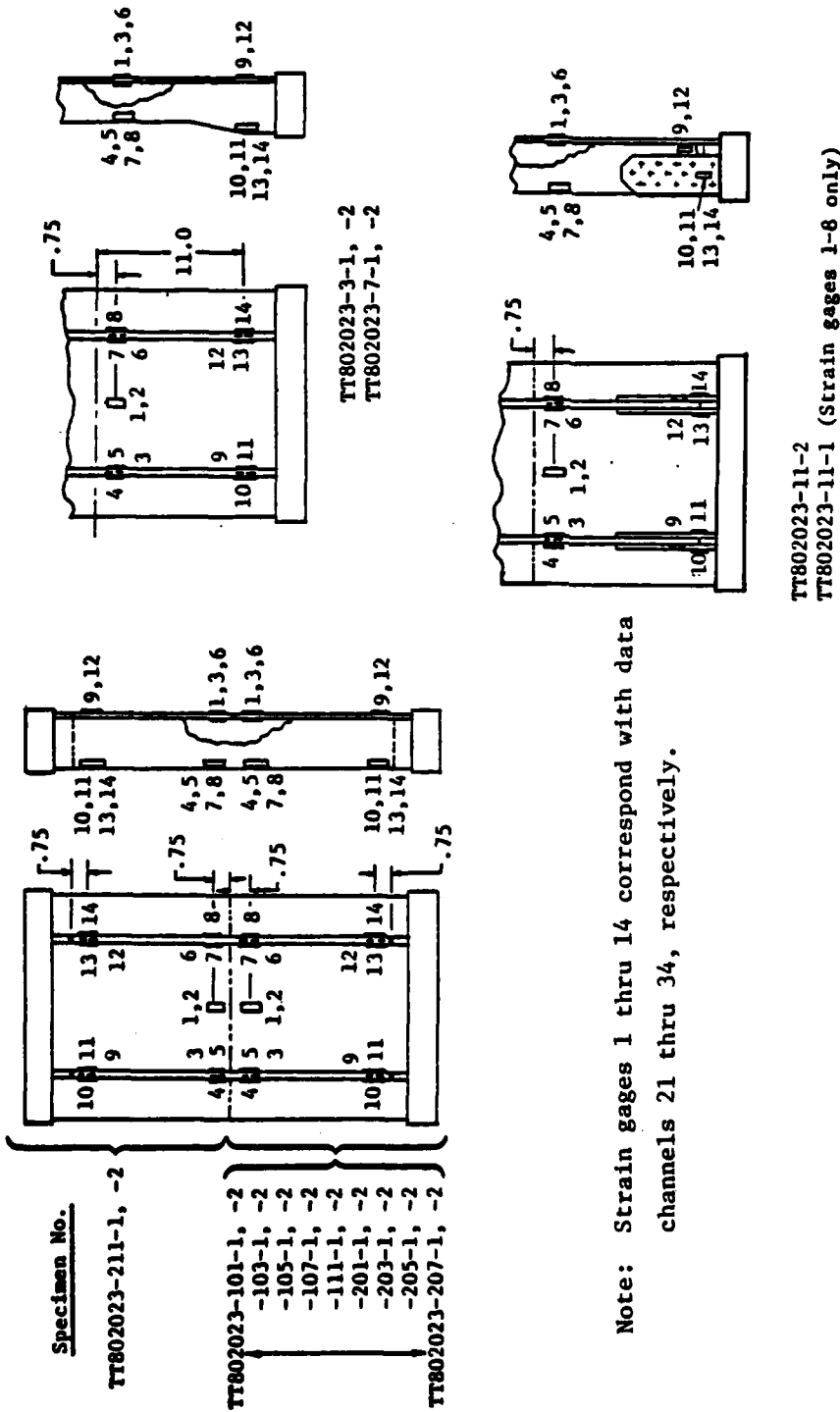


## List of Illustrations

Figure Number		Page
E-1	Strain Gage Identification and Locations for Compression Test Panels . . . . .	B-554
E-2	Displacement Gage Identification and Locations for Compression Test Panels . . . . .	B-555
E-3	Annotated Example of Data Printout . . . . .	B-556

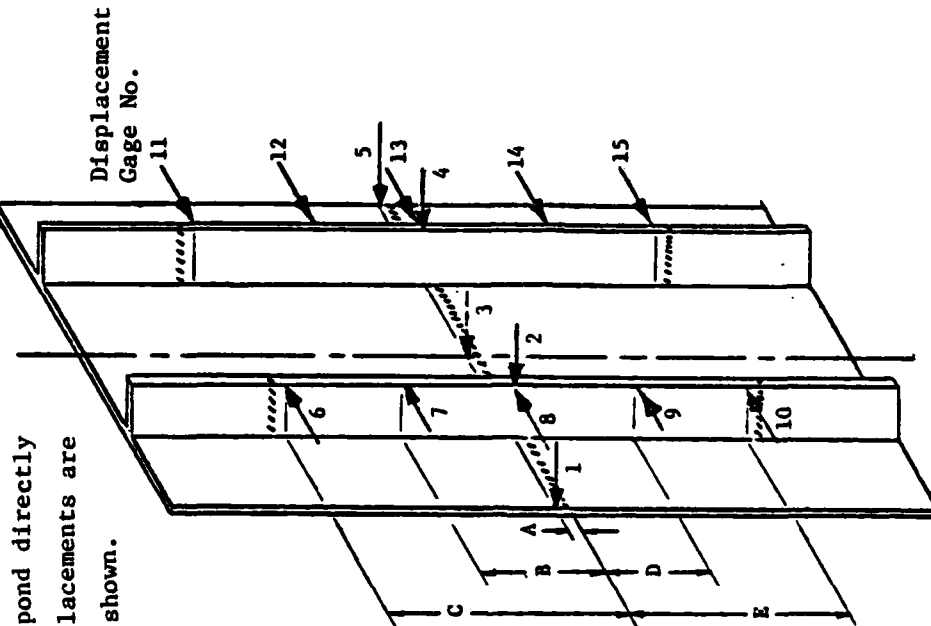
## List of Data Sets

Specimen No.	Page
TT802023-3-1 . . . . .	B-556
TT802023-3-2 . . . . .	B-562
TT802023-7-1 . . . . .	B-567
TT802023-7-2 . . . . .	B-572
TT802023-11-1 . . . . .	B-577
TT802023-11-2 . . . . .	B-588
TT802023-101-1 . . . . .	B-589
TT802023-101-2 . . . . .	B-594
TT802023-103-1 . . . . .	B-599
TT802023-103-2 . . . . .	B-604
TT802023-105-1 . . . . .	B-609
TT802023-105-2 . . . . .	B-613
TT802023-107-1 . . . . .	B-618
TT802023-107-2 . . . . .	B-623
TT802023-111-1 . . . . .	B-628
TT802023-111-2 . . . . .	B-632
TT802023-201-1 . . . . .	B-637
TT802023-201-2 . . . . .	B-642
TT802023-203-1 . . . . .	B-648
TT802023-203-2 . . . . .	B-653
TT802023-205-1 . . . . .	B-658
TT802023-205-2 . . . . .	B-663
TT802023-207-1 . . . . .	B-668
TT802023-207-1 . . . . .	B-673
TT802023-211-1 . . . . .	B-678
TT802023-211-2 . . . . .	B-683



Note: Strain gages 1 thru 14 correspond with data channels 21 thru 34, respectively.

Figure E-1. Strain Gage Identification and Locations for Compression Test Panels.



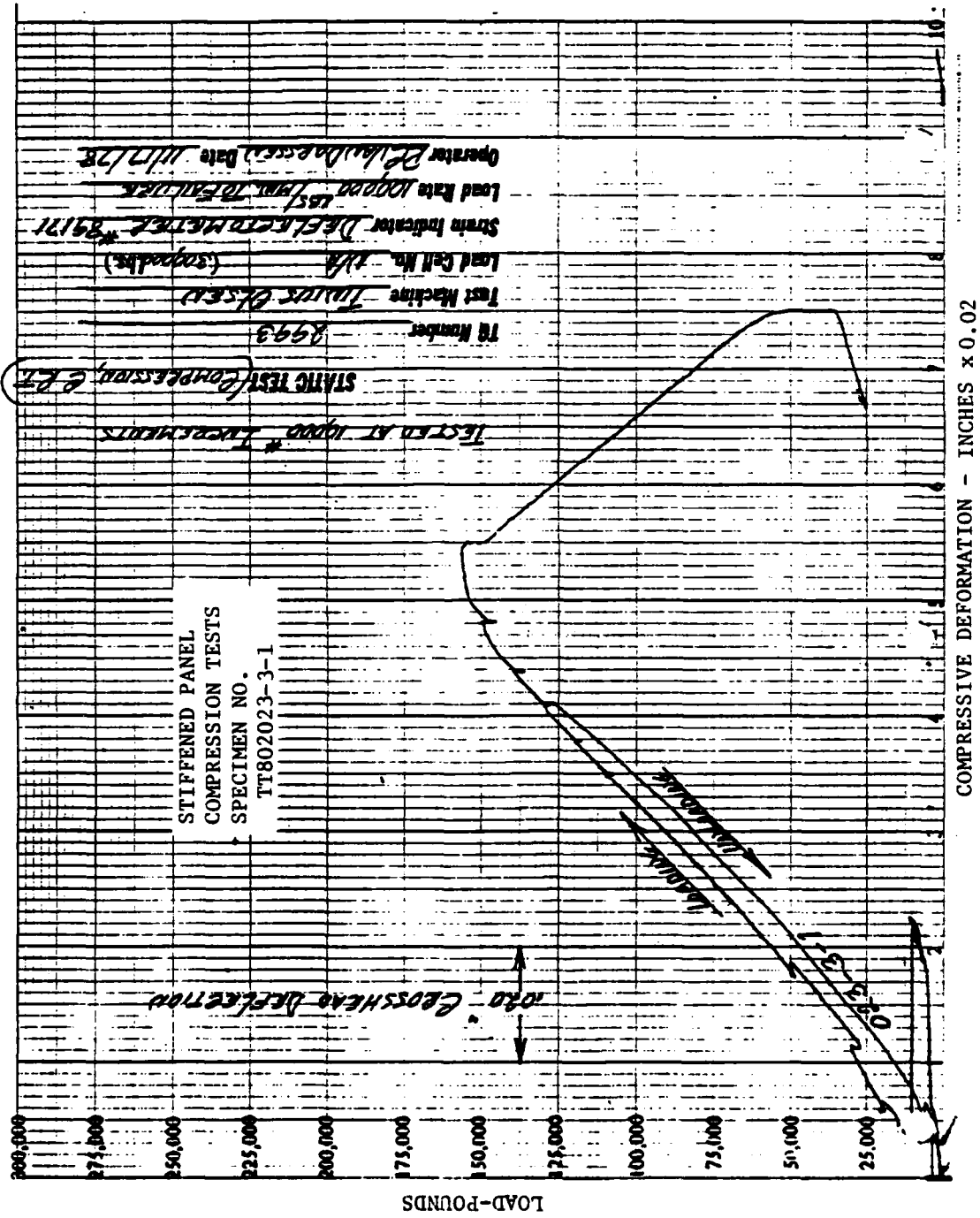
Note: Displacement gage numbers correspond directly with data channel numbers. Displacements are positive in the arrow direction shown.

Specimen No. TT802023 -	Dimensions (inches)				
	A	B	C	D	E
-3-1	.5	6.0	11.5	6.0	11.5
-3-2	.5	6.0	11.5	6.0	11.5
-7-1	.5	6.0	11.5	6.0	11.5
-7-2	.5	6.0	11.5	6.0	11.5
-11-1	.5	3.0	11.5	3.0	11.5
-11-2	.5	3.0	11.5	3.0	11.5
-101-1	.5	6.0	11.5	6.0	11.5
-101-2	.5	6.0	11.5	6.0	11.5
-103-1	.5	6.0	11.25	6.0	11.25
-103-2	.5	6.0	11.25	6.0	11.25
-105-1	.5	6.0	11.5	6.0	11.5
-105-2	.5	6.0	11.5	6.0	11.5
-107-1	.5	6.0	11.5	6.0	11.5
-107-2	.5	6.0	11.5	6.0	11.5
-111-1	.5	6.0	11.5	6.0	11.5
-111-2	.5	6.0	11.25	6.0	11.25
-201-1	.5	6.0	11.25	6.0	11.25
-201-2	.5	6.0	11.25	6.0	11.25
-203-1	.5	6.0	11.0	6.0	11.0
-203-2	.5	6.0	11.0	6.0	11.0
-205-1	.5	6.0	11.25	6.0	11.25
-205-2	.5	6.0	11.25	6.0	11.25
-207-1	.25	5.75	11.5	6.25	11.5
-207-2	.5	6.0	11.5	6.0	11.5
-211-1	.5	6.0	11.5	6.0	11.5
-211-2	.5	6.0	11.5	6.0	11.5

Figure E-2. Displacement Gage Identification and Locations for<sub>3</sub> for Compression Test Panels.

Strain gage numbers 1 thru 14 respectively; gage readings in microinches per inch.	34-01215	
	33-01162	
	32-01539	
	31-00898	
	30-00987	
	29-01422	
	28-01737	
	27-01785	Strain gage No. 7;
	26-01546	Strain = 1785 $\mu$ in./in. compression.
	25-01472	
	24-01560	
	23-01395	
	22-01500	
	21-01534	
Displacement gage numbers 1 thru 15; gage readings in .001 inch.	<del>20-00003</del>	
	<del>19-00004</del>	
	<del>18-00008</del>	
	<del>17-00006</del>	
	<del>16-00011</del>	
	15-00001.	
	14-00004.	
	13-00001.	
	12-00009.	
	11-00012.	
	10-00004.	
	09-00010.	Displacement gage No. 8;
	08-00019.	Displacement = .019 in. outboard.
	07-00020.	
	06-00012.	
05-00009.		
04-00014.		
03-00014.		
02-00014.		
01-00010.	Time = 13h 59 m 22s.	
01359220	} Last digit is ignored.	
01117700		Date = Nov. 17, 1978
100K	Applied load in kips	

Figure E-3. Annotated Example of Data Printout.



SHEET 1 of 4

11/17/78

PANEL TT802023-3-1

34-00002  
33-00002  
32-00000  
31-00001  
30-00002  
29-00001  
28-00001  
27-00000  
26-00000  
25-00000  
24-00001  
23-00001  
22-00000  
21-00000  
20-00000  
19-00000  
18-00000  
17-00000  
16-00000  
15-00000  
14-00001  
13-00001  
12-00000  
11-00000  
10-00001  
09-00002  
08-00001  
07-00001  
06-00000  
05-00002  
04-00001  
03-00000  
02-00000  
01-00000  
0134390  
0111780

34-01412  
33-01414  
32-01416  
31-01415  
30-01417  
29-01411  
28-01413  
27-01412  
26-01410  
25-01408  
24-01409  
23-01411  
22-01410  
21-01410  
0134430  
0111780

Strain Gage  
R Cal

34-00142  
33-00137  
32-00135  
31-00038  
30-00051  
29-00096  
28-00186  
27-00191  
26-00157  
25-00093  
24-00094  
23-00084  
22-00120  
21-00122  
20-00094  
19-00093  
18-00094  
17-00097  
16-00094  
15-00001  
14-00001  
13-00000  
12-00005  
11-00005  
10-00002  
09-00004  
08-00007  
07-00006  
06-00006  
05-00009  
04-00009  
03-00010  
02-00008  
01-00005  
01349180  
0111780

34-00289  
33-00279  
32-00310  
31-00125  
30-00139  
29-00245  
28-00391  
27-00401  
26-00311  
25-00233  
24-00242  
23-00227  
22-00270  
21-00274  
20-00263  
19-00093  
18-00096  
17-00097  
16-00094  
15-00000  
14-00004  
13-00005  
12-00009  
11-00009  
10-00003  
09-00004  
08-00009  
07-00009  
06-00009  
05-00004  
04-00009  
03-00006  
02-00010  
01-00005  
01350190  
0111780

34-00409  
33-00396  
32-00465  
31-00226  
30-00244  
29-00379  
28-00570  
27-00764  
26-00410  
25-00549  
24-00574  
23-00501  
22-00564  
21-00570  
20-00609  
19-00604  
18-00606  
17-00605  
16-00610  
15-00001  
14-00004  
13-00004  
12-00009  
11-00008  
10-00003  
09-00004  
08-00009  
07-00011  
06-00009  
05-00004  
04-00009  
03-00011  
02-00013  
01-00009  
01351170  
0111780

34-00532  
33-00516  
32-00613  
31-00325  
30-00350  
29-00522  
28-00747  
27-00764  
26-00410  
25-00549  
24-00574  
23-00501  
22-00564  
21-00570  
20-00609  
19-00604  
18-00606  
17-00605  
16-00610  
15-00001  
14-00004  
13-00004  
12-00009  
11-00011  
10-00003  
09-00004  
08-00014  
07-00010  
06-00010  
05-00009  
04-00009  
03-00011  
02-00013  
01-00009  
01352440  
0111780

Test Start  
0

10K

20K

30K

40K

SHEET 2 of 4

11/17/78

PANEL TT802023-3-1

34-00652	34-00768	34-00882	34-01003	34-01112	34-01215
33-00634	33-00747	33-00858	33-00975	33-01081	33-01182
32-00760	32-00908	32-01057	32-01221	32-01377	32-01539
31-00424	31-00523	31-00619	31-00721	31-00813	31-00898
30-00457	30-00563	30-00670	30-00784	30-00886	30-00987
29-00664	29-00808	29-00954	29-01121	29-01263	29-01422
28-00918	28-01087	28-01254	28-01429	28-01589	28-01737
27-00640	27-01113	27-01284	27-01451	27-01628	27-01785
26-00756	26-00905	26-01055	26-01218	26-01376	26-01546
25-00709	25-00866	25-01024	25-01186	25-01335	25-01472
24-00743	24-00910	24-01076	24-01252	24-01412	24-01560
23-00641	23-00783	23-00947	23-01084	23-01235	23-01395
22-00712	22-00863	22-01014	22-01171	22-01335	22-01500
21-00719	21-00871	21-01024	21-01189	21-01353	21-01534
20-00604	20-00803	20-00965	20-01135	20-01306	20-01483
19-00603	19-00803	19-00965	19-01135	19-01306	19-01483
18-00609	18-00809	18-00969	18-01139	18-01309	18-01489
17-00606	17-00806	17-00966	17-01136	17-01306	17-01486
16-00611	16-00811	16-00971	16-01141	16-01311	16-01491
15-00601	15-00801	15-00961	15-01131	15-01301	15-01481
14-00603	14-00803	14-00963	14-01133	14-01303	14-01483
13-00603	13-00803	13-00963	13-01133	13-01303	13-01483
12-00609	12-00809	12-00969	12-01139	12-01309	12-01489
11-00612	11-00812	11-00972	11-01142	11-01312	11-01492
10-00603	10-00803	10-00963	10-01133	10-01303	10-01483
09-00607	09-00807	09-00967	09-01137	09-01307	09-01487
08-00614	08-00814	08-00974	08-01144	08-01314	08-01494
07-00610	07-00810	07-00970	07-01140	07-01310	07-01490
06-00610	06-00810	06-00970	06-01140	06-01310	06-01490
05-00609	05-00809	05-00969	05-01139	05-01309	05-01489
04-00610	04-00810	04-00970	04-01140	04-01310	04-01490
03-00612	03-00812	03-00972	03-01142	03-01312	03-01492
02-00613	02-00813	02-00973	02-01143	02-01313	02-01493
01-00610	01-00810	01-00970	01-01140	01-01310	01-01490
01353380	01355050	01356010	01357130	01358080	01359220
01117780	01117780	01117780	01117780	01117780	01117780
	60K	70K	80K	90K	100K

SHEET 3 of 4

11/17/78

PANEL TT802023-3-1

34-01309	34-01396	34-0145C	34-00067	34-01456
33-01276	33-01368	33-01451	33-00081	33-01469
32-01717	32-01905	32-02132	32-00407	32-02161
31-00976	31-01052	31-01118	31-00050	31-01111
30-01660	30-01164	30-01221	30-00046	30-01213
29-01590	29-01768	29-01962	29-00209	29-02008
28-01872	28-02601	28-02692	28-00113	28-02094
27-01935	27-02084	27-02222	27-00151	27-02234
26-01738	26-01943	26-02203	26-00487	26-02240
25-01598	25-01716	25-01804	25-00025	25-01810
24-01693	24-01820	24-01912	24-00041	24-01912
23-01573	23-01766	23-02001	23-00347	23-02035
22-01677	22-01859	22-02055	22-00362	22-02080
21-01739	21-01963	21-02250	21-00500	21-02295
20-00004	20-00002	20-00009	20-00005	20-00004
19-00002	19-00003	19-00006	19-00002	19-00003
18-00000	18-00000	18-00004	18-00004	18-00008
17-00000	17-00000	17-00006	17-00006	17-00006
16-00001	16-00001	16-00001	16-00001	16-00001
15-00001	15-00001	15-00001	15-00001	15-00001
14-00004	14-00004	14-00001	14-00004	14-00006
13-00001	13-00001	13-00005	13-00000	13-00005
12-00004	12-00005	12-00000	12-00005	12-00000
11-00012	11-00013	11-00013	11-00004	11-00010
10-00005	10-00005	10-00003	10-00003	10-00004
09-00009	09-00009	09-00002	09-00005	09-00009
08-00023	08-00023	08-00004	08-00009	08-00027
07-00019	07-00024	07-00028	07-00006	07-00029
06-0013	06-0012	06-00012	06-00005	06-00012
05-00009	05-00009	05-00013	05-00027	05-00017
04-00018	04-00022	04-00027	04-00029	04-00031
03-00020	03-00023	03-00032	03-00027	03-00036
02-0017	02-0017	02-00027	02-00027	02-00027
01-00011	01-00010	01-00012	01-00023	01-00015
01400260	01403040	01404040	01407060	01409450
01117780	01117780	01117780	01117780	01117780

110K

120K

130K

0 after 130K  
Perm. Set Check

10K

130K



SHEET 4 of 4

11/17/78

PANEL TT802023-3-1

34-01462  
33-01600  
32-02384  
31-01218  
30-01235  
29-02221  
28-02170  
27-02382  
26-02493  
25-01909  
24-02007  
23-02267  
22-02231  
21-02522  
20-00002  
19-00004  
18-00000  
17-00006  
16-00011  
15-00001  
14-00018  
13-00014  
12-00009  
11-00011  
10-00005  
09-00004  
08-00032  
07-00040  
06-00014  
05-00018  
04-00036  
03-00048  
02-00033  
01-00014  
0141020  
0111780

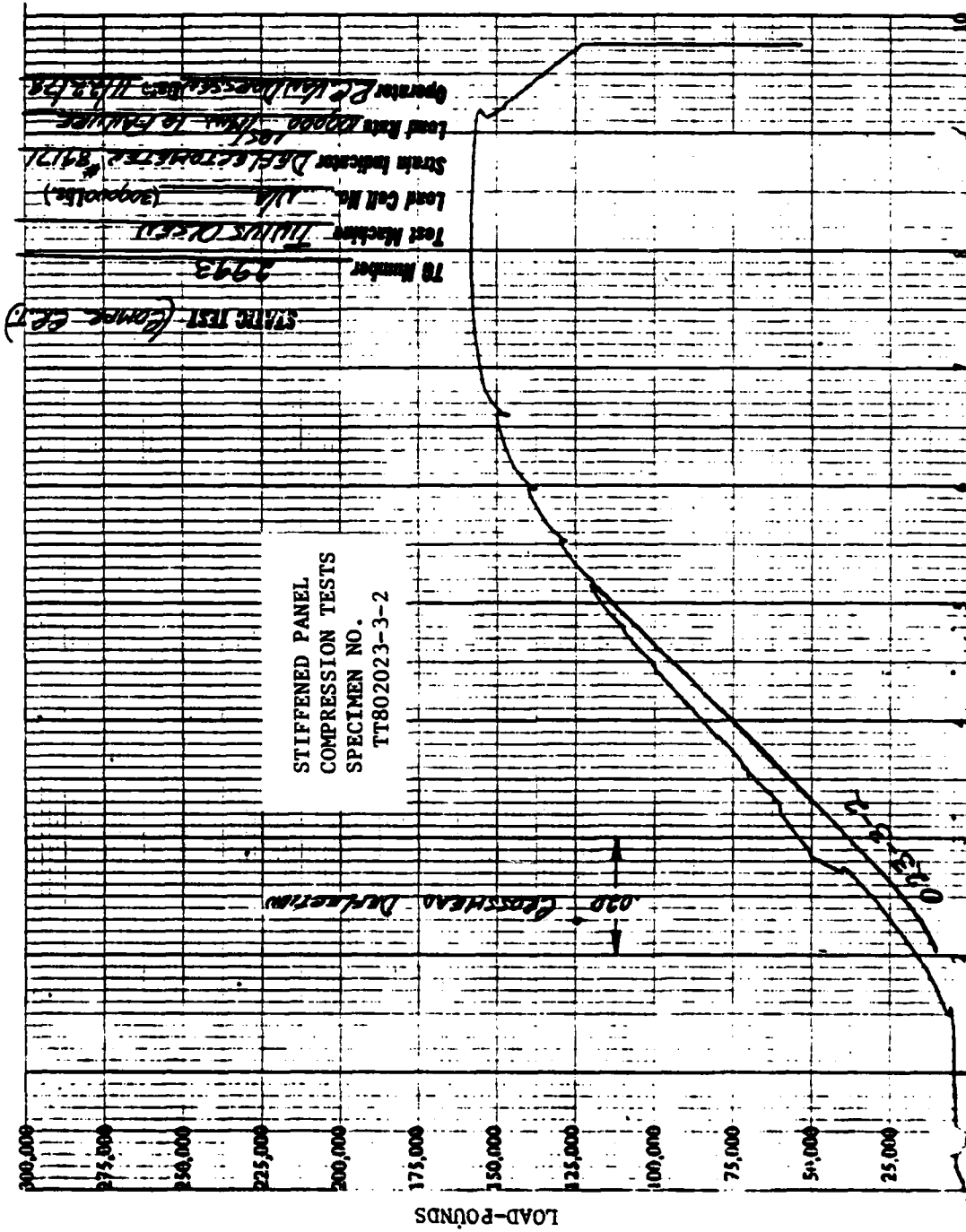
140K

34-01196  
33-01890  
32-02715  
31-01454  
30-01047  
29-02525  
28-02027  
27-02504  
26-02979  
25-01939  
24-01459  
23-02677  
22-02198  
21-02529  
20-00004  
19-00004  
18-00009  
17-00006  
16-00004  
15-00001  
14-00063  
13-00041  
12-00045  
11-00009  
10-00003  
09-00031  
08-00054  
07-00074  
06-00014  
05-00009  
04-00049  
03-00088  
02-00047  
01-00009  
0141080  
0111780

150K

34-00448  
33-00092  
32-00731  
31-00027  
30-00188  
29-00540  
28-01120  
27-00771  
26-00163  
25-00429  
24-00349  
23-00136  
22-00146  
21-00129  
20-00004  
19-00007  
18-00012  
17-00010  
16-00015  
15-00025  
14-00388  
13-00130  
12-00055  
11-00006  
10-00013  
09-00276  
08-00073  
07-00050  
06-00012  
05-00023  
04-00716  
03-00489  
02-00732  
01-00801  
0141640  
0111780

Post Buckling  
0



SHEET 1 of 4

11/22/78

PANEL TT802023-3-2

Strain Gage Zero Ref.	Strain Gage R Cal	Test Start "0" @ .5K	10K	20K	30K
34-00000	34-00007	34-00102	34-00195	34-00292	
33-00001	33-00006	33-00094	33-00184	33-00276	
32-00002	32-00004	32-00122	32-00208	32-00443	
31-00000	31-00007	31-00088	31-00184	31-00282	
30-00001	30-00006	30-00083	30-00184	30-00286	
29-00000	29-00010	29-00144	29-00314	29-00471	
28-00000	28-00008	28-00140	28-00292	28-00439	
27-00001	27-00008	27-00147	27-00306	27-00462	
26-00000	26-00005	26-00122	26-00267	26-00408	
25-00001	25-00010	25-00139	25-00311	25-00473	
24-00000	24-00010	24-00128	24-00225	24-00432	
23-00001	23-00010	23-00138	23-00295	23-00441	
22-00000	22-00008	22-00116	22-00249	22-00377	
21-00001	21-00009	21-00140	21-00304	21-00464	
20-00000	20-00007	20-00004	20-00004	20-00007	
19-00001	19-00005	19-00005	19-00005	19-00004	
18-00000	18-00001	18-00011	18-00011	18-00010	
17-00001	17-00008	17-00002	17-00002	17-00008	
16-00000	16-00011	16-00012	16-00012	16-00012	
15-00001	15-00000	15-00000	15-00000	15-00000	
14-00000	14-00001	14-00000	14-00001	14-00001	
13-00001	13-00001	13-00001	13-00001	13-00001	
12-00000	12-00001	12-00000	12-00000	12-00000	
11-00000	11-00000	11-00000	11-00000	11-00000	
10-00001	10-00004	10-00003	10-00004	10-00004	
09-00001	09-00001	09-00001	09-00002	09-00001	
08-00000	08-00000	08-00000	08-00000	08-00001	
07-00000	07-00000	07-00000	07-00000	07-00000	
06-00000	06-00000	06-00000	06-00000	06-00000	
05-00005	05-00005	05-00017	05-00016	05-00018	
04-00008	04-00008	04-00016	04-00017	04-00016	
03-00005	03-00005	03-00014	03-00014	03-00014	
02-00005	02-00005	02-00015	02-00015	02-00015	
01-00005	01-00005	01-00014	01-00014	01-00018	
01503220	01503220	01504190	01504190	01505210	
01122780	01122780	01122780	01122780	01122780	

DEFL. IND.  
ZERO REF.  
@ 1K

Strain Gage  
Zero Ref.

Strain Gage  
R Cal

11/22/78

**SHEET 2 of 4**

34-00934  
33-0029  
32-01387  
31-00044  
30-00421  
29-01349  
28-01261  
27-01421  
26-01344  
25-01451  
24-01222  
23-01372  
22-01101  
21-01069  
20-00005  
19-00006  
18-00006  
17-00006  
16-00006  
15-00006  
14-00010  
13-00013  
12-00000  
11-00000  
10-00006  
9-00011  
8-00011  
7-00000  
6-00000  
5-00027  
4-00016  
3-00007  
2-00015  
1-00024  
1510560  
112280

90K

SHEET 3 of 4

11/22/78

PANEL TT802023-3-2

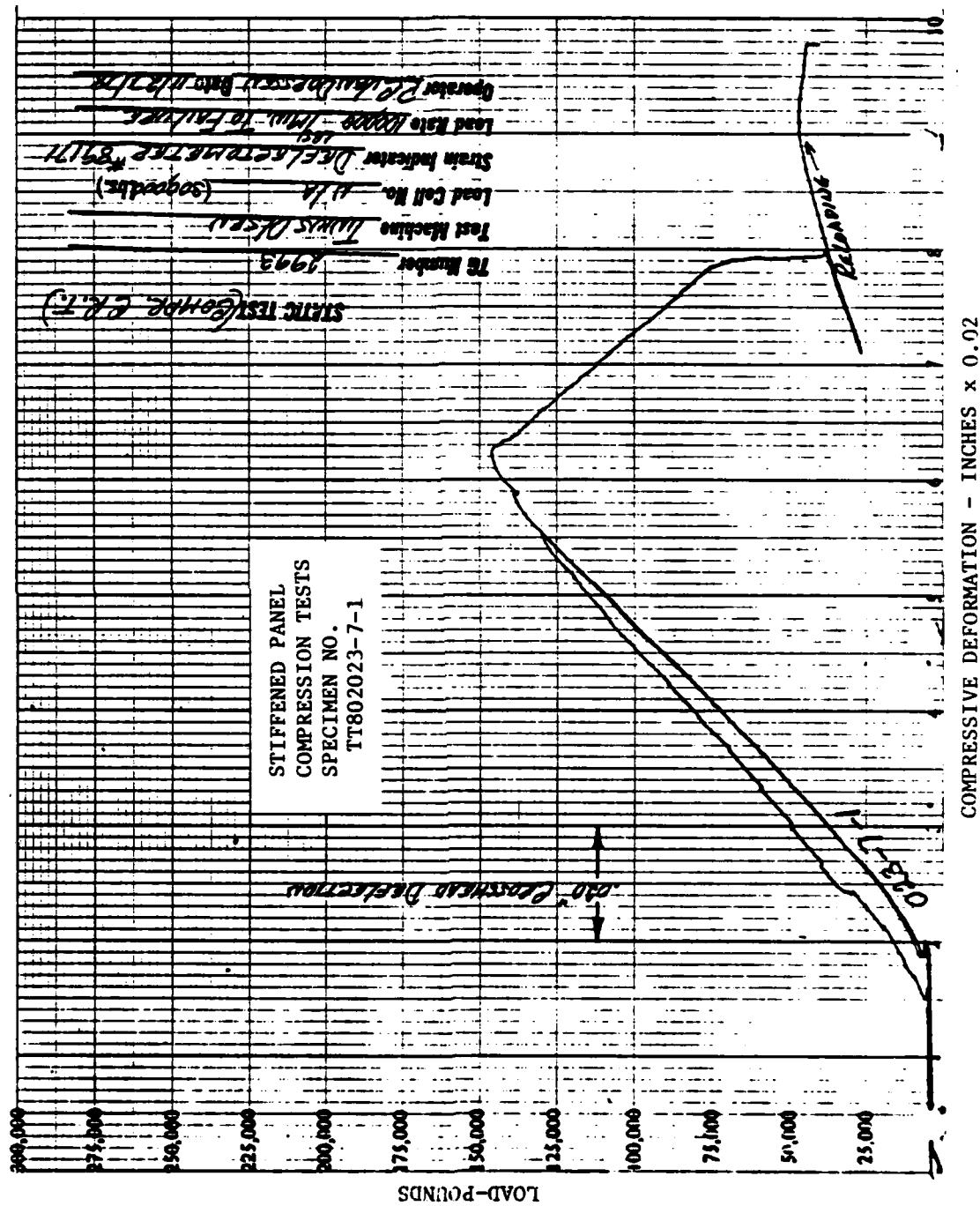
34-01044	34-01155	34-00034	34-01255	34-01360
33-00699	33-00953	33-00006	33-00975	33-00988
32-01561	32-01745	32-00284	32-01967	32-02177
31-00916	31-00972	31-00023	31-00996	31-01015
30-01032	30-01136	30-00050	30-01237	30-01337
29-01557	29-01731	29-00267	29-01442	29-02146
28-01337	28-01362	28-00054	28-01272	26-01128
27-01982	27-01739	27-00086	27-01908	27-02099
26-01344	26-01744	26-00365	26-02023	26-02300
25-01334	25-01769	25-00069	25-01934	25-02121
24-01293	24-01317	24-00057	24-01232	24-01095
23-01366	23-01786	23-00408	23-02081	23-02376
22-01171	22-01232	22-00150	22-01180	22-01035
21-01987	21-02356	21-00601	21-02683	21-03402
19-00006	19-00004	19-00005	19-00007	19-00007
18-00005	18-00004	18-00005	18-00005	18-00005
17-00004	17-00004	17-00004	17-00004	17-00004
16-00002	16-00002	16-00002	16-00002	16-00002
15-00015	15-00020	15-00002	15-00003	15-00002
14-00017	14-00022	14-00003	14-00030	14-00039
13-00000	13-00000	13-00003	13-00031	13-00035
12-00000	12-00000	12-00005	12-00005	12-00016
11-00000	11-00000	11-00001	11-00000	11-00000
10-00000	10-00000	10-00000	10-00000	10-00000
09-00016	09-00016	09-00005	09-00028	09-00036
08-00018	08-00018	08-00004	08-00027	08-00032
07-00003	07-00003	07-00005	07-00009	07-00019
06-00005	06-00005	06-00000	06-00005	06-00006
05-00027	05-00027	05-00009	05-00026	05-00027
04-00012	04-00012	04-00009	04-00004	04-00005
03-00008	03-00008	03-00001	03-00025	03-00040
02-00011	02-00011	02-00007	02-00002	02-00006
01-00027	01-00027	01-00009	01-00024	01-00027
01513240	01513240	01515420	01518230	01519250
01122780	01122780	01122780	01122780	01122780
110K	110K	10K	120K	130K

34-01547	34-00910
33-00876	33-00051
32-02815	32-01335
31-00980	31-00029
30-01496	30-00786
29-02783	29-01348
28-00001	28-05894
27-02765	27-15929
26-03343	26-04125
25-02751	25-03516
24-00009	24-08421
23-03516	23-04774
22-00133	22-01159
21-05449	21-04765
20-00007	20-00030
19-00006	19-06604
18-00041	18-00044
17-00009	17-00044
16-00041	16-00045
15-00002	15-00012
14-00063	14-00096
13-00366	13-00222
12-00073	12-00483
11-00004	11-00058
10-00008	10-00001
09-00059	09-00120
08-00059	08-00189
07-00075	07-00598
06-00013	06-00054
05-00023	05-01075
04-00041	04-00954
03-00107	03-00841
02-00042	02-00967
01-00018	01-01039
0152150	0152250
01122780	01122780

## Post Buckling

150K

140K



**PANEL TT802023-7-1**

Test Start "0"  
@ .5K



**PANEL TT802023-7-1**

[illegible]

[illegible]

TER073

SHEET 4 of 4

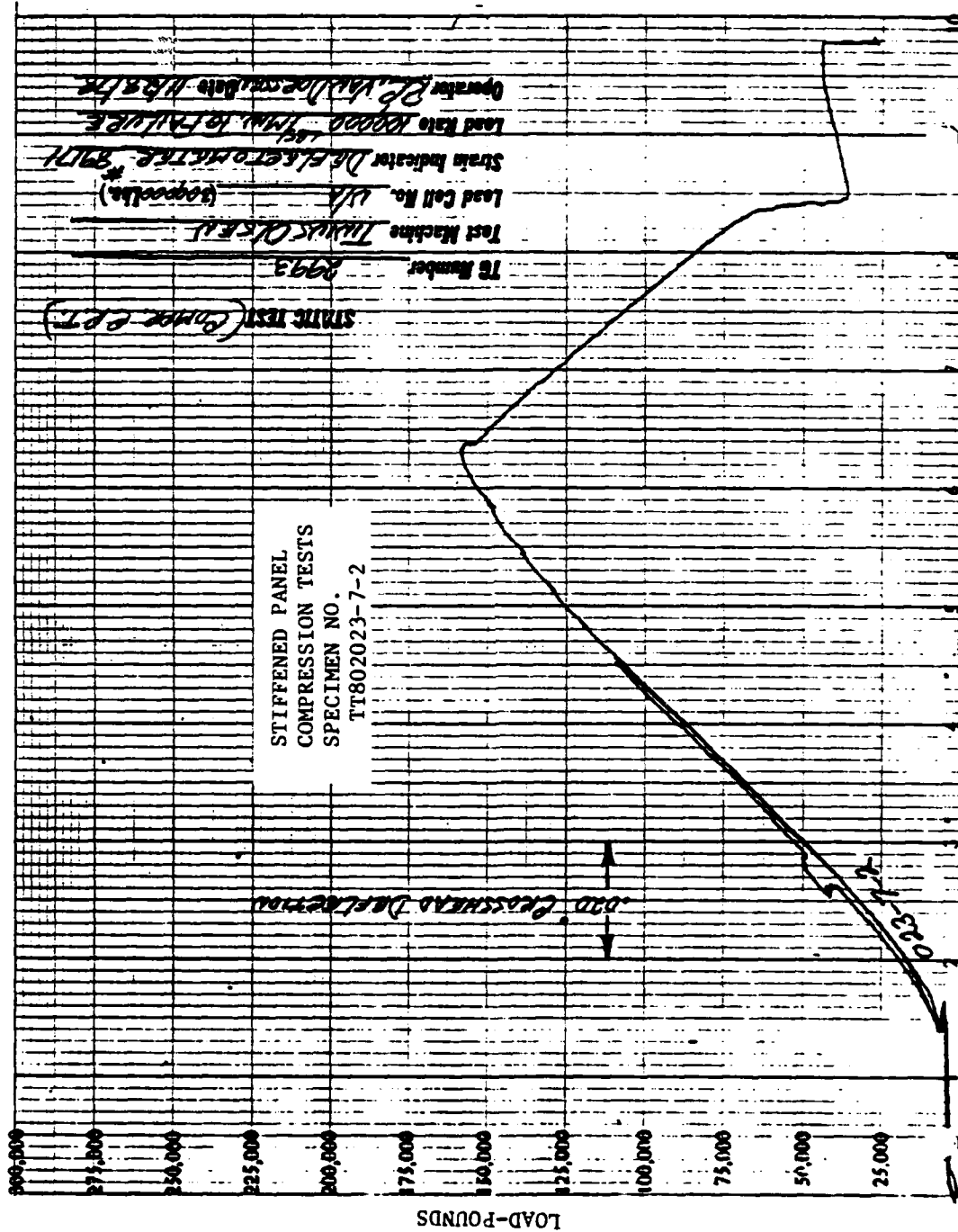
11/27/78

PANEL TT802023-7-1

34-01092	34+00144
33-01163	33+00048
32-02475	32+00371
31-01452	31+00076
30-01308	30+00094
29-02246	29+00280
28-04747	28+04067
27-00473	27+05361
26-01867	26+02678
25-03916	25+06085
24-02220	24+02617
23-02033	23+03407
22-02491	22+02402
21-01784	21+01844
20-00044	20+00004
19-00000	19+00000
18-00000	18+00000
17-00002	17+00002
16-00000	16+00000
15-00005	15+00003
14-00012	14+00053
13-00060	13+00007
12+00001	12+00046
11-00001	11+00056
10+00000	10+00009
09+00027	09+00030
08+00006	08+00094
07+00018	07+00073
06+00005	06+00091
05+00065	05+00232
04+00037	04+00062
03+00061	03+01077
02+00030	02+00298
01+00023	01+00430
01450290	01453350
01127780	01127780

Post Buckling  
@ 0

140K



COMPRESSIVE DEFORMATION - INCHES x 0.02

SHEET 1 of 4

11/28/78

PANEL TT302023-7-2

34-00000  
33-00000  
32-00001  
31-00001  
30-00000  
29-00000  
28-00001  
27-00001  
26-00002  
25-00001  
24-00000  
23-00001  
22-00001  
21-00001  
01309070  
01128780

Strain Gage  
Zero Ref.

15-00000  
14-00001  
13-00001  
12-00000  
11-00000  
10-00000  
09-00000  
08-00001  
07-00001  
06-00000  
05-00001  
04-00000  
03-00000  
02-00001  
01-00001  
01313050  
01128780

DEFL. IND.  
ZERO REF.  
@ 5K

34-00003  
33-00004  
32-00004  
31-00007  
30-00006  
29-00012  
28-00001  
27-00000  
26-00002  
25-00002  
24-00003  
23-00011  
22-00005  
21-00006  
20-00009  
19-00006  
18-00002  
17-00002  
16-00005  
15-00000  
14-00000  
13-00001  
12-00001  
11-00001  
10-00000  
09-00001  
08-00000  
07-00000  
06-00000  
05-00001  
04-00000  
03-00009  
02-00012  
01-00012  
01313410  
01128780

Test Start "0"  
@ .5K

34-00005  
33-00005  
32-00017  
31-00077  
30-00085  
29-00135  
28-00163  
27-00150  
26-00106  
25-00163  
24-00130  
23-00131  
22-00120  
21-00119  
20-00038  
19-00000  
18-00005  
17-00002  
16-00005  
15-00001  
14-00001  
13-00001  
12-00000  
11-00000  
10-00000  
09-00000  
08-00000  
07-00001  
06-00000  
05-00005  
04-00000  
03-00000  
02-00003  
01-00004  
01318060  
01128780

10K

34-00201  
33-00180  
32-00269  
31-00178  
30-00193  
29-00300  
28-00356  
27-00323  
26-00231  
25-00380  
24-00304  
23-00278  
22-00281  
21-00259  
20-00237  
19-00000  
18-00005  
17-00003  
16-00006  
15-00000  
14-00001  
13-00001  
12-00001  
11-00000  
10-00000  
09-00001  
08-00000  
07-00001  
06-00000  
05-00001  
04-00003  
03-00005  
02-00002  
01-00002  
01318270  
01128780

20K

34-00316  
33-00287  
32-00427  
31-00288  
30-00307  
29-00464  
28-00559  
27-00503  
26-00369  
25-00611  
24-00485  
23-00424  
22-00411  
21-00406  
20-00338  
19-00001  
18-00005  
17-00002  
16-00006  
15-00000  
14-00001  
13-00000  
12-00000  
11-00000  
10-00000  
09-00001  
08-00001  
07-00001  
06-00000  
05-00003  
04-00005  
03-00006  
02-00002  
01-00006  
01318490  
01128780

30K

**PANEL TT802023-7-2**

40K	50K	60K	70K	80K	90K
34-00433	34-00549	34-00666	34-00785	34-00896	34-01011
33-00503	33-00503	33-00612	33-00772	33-00824	33-00930
32-00576	32-00724	32-00872	32-01020	32-01165	32-01319
31-00395	31-00504	31-00611	31-00720	31-00824	31-00932
30-00419	30-00529	30-00636	30-00744	30-00847	30-00953
29-00621	29-00774	29-00927	29-01082	29-01231	29-01388
28-00759	28-00959	28-01162	28-01368	28-01565	28-01772
27-00578	27-00851	27-01222	27-01594	27-01956	27-02322
26-00505	26-00842	26-00774	26-00919	26-01356	26-01798
25-00840	25-01072	25-01304	25-01542	25-01919	25-02208
24-00661	24-00834	24-01004	24-01172	24-01329	24-01482
23-00564	23-00701	23-00839	23-00976	23-01111	23-01251
22-00558	22-00705	22-00850	22-00997	22-01137	22-01285
21-00550	21-00693	21-00836	21-00987	21-01132	21-01282
20-00634	20-00800	20-00963	20-01136	20-01307	20-01473
19-00603	19-00766	19-00930	19-01103	19-01276	19-01440
18-00604	18-00767	18-00933	18-01106	18-01279	18-01443
17-00602	17-00765	17-00931	17-01104	17-01277	17-01441
16-00604	16-00767	16-00934	16-01107	16-01280	16-01444
15-00600	15-00600	15-00600	15-00600	15-00600	15-00600
14-00601	14-00601	14-00601	14-00601	14-00602	14-00602
13-00601	13-00601	13-00601	13-00601	13-00601	13-00602
12-00600	12-00600	12-00601	12-00601	12-00601	12-00600
11-00600	11-00600	11-00600	11-00600	11-00600	11-00600
10-00600	10-00600	10-00600	10-00600	10-00600	10-00600
09-00601	09-00601	09-00602	09-00602	09-00602	09-00602
08-00603	08-00604	08-00604	08-00605	08-00606	08-00608
07-00601	07-00600	07-00601	07-00601	07-00601	07-00603
06-00600	06-00600	06-00600	06-00600	06-00600	06-00601
05-00604	05-00604	05-00608	05-00608	05-00604	05-00611
04-00604	04-00609	04-00611	04-00613	04-00615	04-00617
03-00610	03-00616	03-00616	03-00618	03-00623	03-00624
02-00606	02-00607	02-00610	02-00613	02-00616	02-00616
01-00607	01-00615	01-00615	01-00619	01-00623	01-00624
01319160	01320470	01321380	01322510	01323340	01324260
01128780	01128780	01128780	01128780	01128780	01128780

SHEET 3 of 4

11/28/78

PANEL TT802023-7-2

34-01118	34-00027	34-01222	34-01340	34-01441
33-01029	33-00030	33-01123	33-01231	33-01319
32-01471	32-00066	32-01647	32-01820	32-02017
31-01036	31-00032	31-01134	31-01246	31-01345
30-01052	30-00032	30-01141	30-01239	30-01310
29-01542	29-00086	29-01720	29-01897	29-02102
28-01971	28-00030	28-02181	28-02418	28-02651
27-01679	27-00023	27-01831	27-01997	27-02135
26-01339	26-00060	26-01506	26-01666	26-01851
25-02303	25-00121	25-02664	25-03033	25-03473
24-01615	24-00057	24-01710	24-01827	24-01899
23-01319	23-00069	23-01544	23-01697	23-01867
22-01431	22-00031	22-01589	22-01742	22-01879
21-01430	21-00084	21-01604	21-01771	21-01967
20-00036	20-00036	20-00035	20-00035	20-00036
19-00001	19-00001	19-00001	19-00001	19-00001
18-00005	18-00005	18-00005	18-00005	18-00005
17-00003	17-00003	17-00003	17-00003	17-00003
16-00004	16-00004	16-00004	16-00004	16-00004
15-00000	15-00000	15-00000	15-00000	15-00000
14-00002	14-00002	14-00002	14-00002	14-00002
13-00004	13-00004	13-00004	13-00004	13-00004
12-00000	12-00000	12-00000	12-00000	12-00000
11-00000	11-00000	11-00000	11-00000	11-00000
10-00001	10-00001	10-00001	10-00001	10-00001
09-00005	09-00005	09-00005	09-00005	09-00005
08-00008	08-00008	08-00008	08-00008	08-00008
07-00006	07-00006	07-00006	07-00006	07-00006
06-00001	06-00001	06-00001	06-00001	06-00001
05-00012	05-00012	05-00012	05-00012	05-00012
04-00018	04-00018	04-00018	04-00018	04-00018
03-00026	03-00026	03-00026	03-00026	03-00026
02-00015	02-00015	02-00015	02-00015	02-00015
01-00028	01-00028	01-00028	01-00028	01-00028
0132220	0132220	0132220	0132220	0132220
0112870	0112870	0112870	0112870	0112870
100K	110K	110K	120K	130K

Perm. Set Check  
@ 0

SHEET 4 of 4

11/28/78

PANEL TT802023-7-2

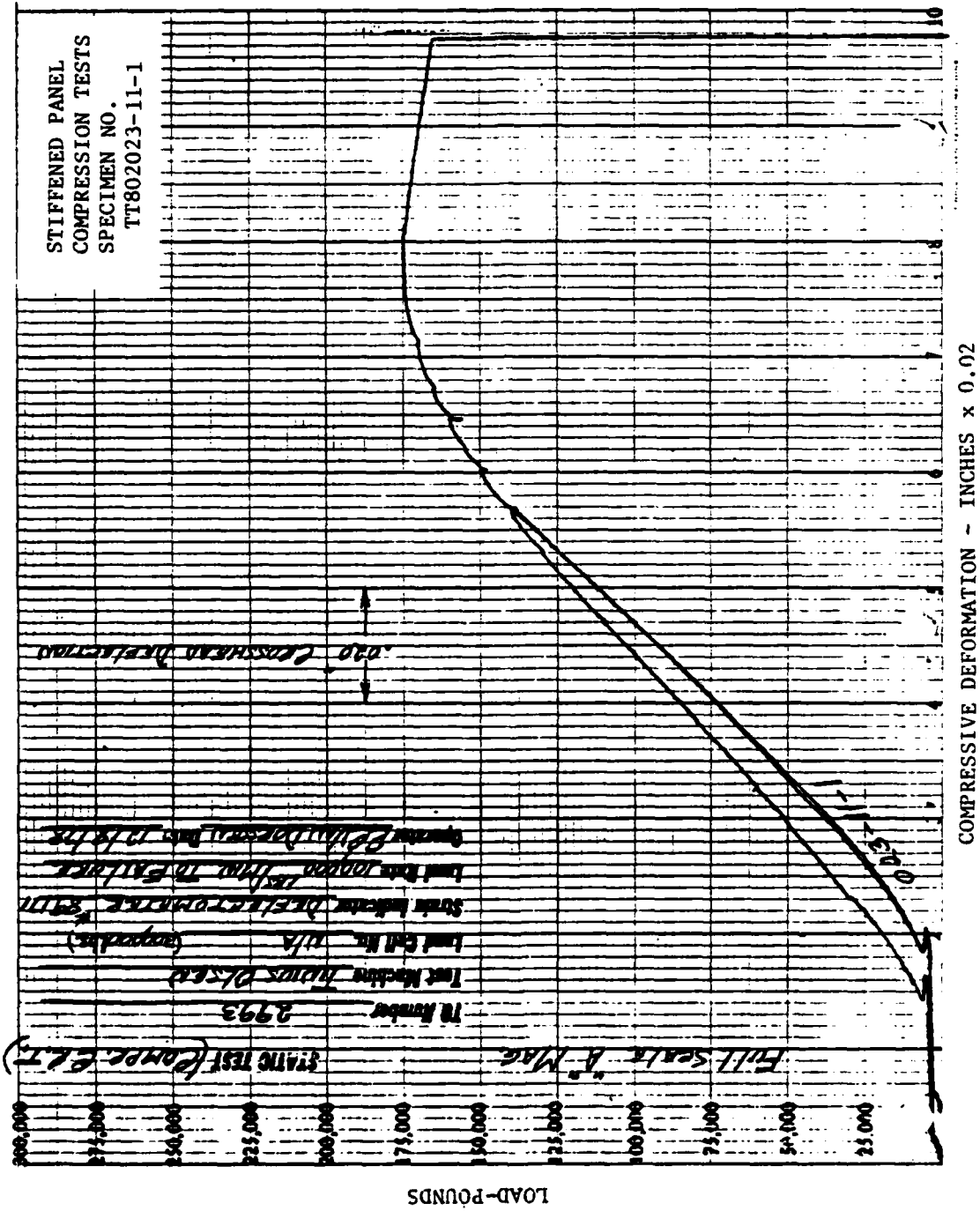
34-01537	34-01621	34-00165
33-01373	33-01465	33-00002
32-02281	32-02517	32-00758
31-01453	31-01603	31-00881
30-01360	30-01354	30-00194
29-02332	29-02615	29-00807
28-02508	28-03199	28-00539
27-02261	27-02381	27-05258
26-02062	26-02321	26-01710
25-03975	25-04621	25-03835
24-01961	24-01994	24-02269
23-02056	23-02286	23-05104
22-02006	22-02079	22-02820
21-02190	21-02486	21-02413
20-00035	20-00033	20-00059
19-00001	19-00004	19-00003
18-00006	18-00006	18-00006
17-00003	17-00004	17-00007
16-00006	16-00007	16-00004
15-00003	15-00004	15-00062
14-00002	14-00002	14-00395
13-00014	13-00013	13-00137
12-00001	12-00000	12-00101
11-00001	11-00001	11-00122
10-00001	10-00001	10-01043
09-00011	09-00020	09-01076
08-00017	08-00026	08-00556
07-00014	07-00017	07-01034
06-00001	06-00001	06-01031
05-00004	05-00000	05-00513
04-00016	04-00018	04-00533
03-00032	03-00029	03-00506
02-00016	02-00015	02-00475
01-00033	01-00038	01-00470
0133300	01333370	01337110
01128/81	01128/81	01128/80

Post Buckling  
0

150K

140K





SHEET 1 of 5

12/8/78

PANEL TT802023-11-1

Strain Gage Zero Ref.	Strain Gage R Cal	DEFL. IND. ZERO REF.	Test Start 0	10K	20K
2A-00003	2A-01414	2A-00049	2A-00002	2A-00119	2A-00274
27-00001	27-01414	27-00045	27-00003	27-00109	27-00250
26-00004	26-01415	26-00053	26-00006	26-00119	26-00274
25-00003	25-01415	25-00042	25-00002	25-00116	25-00284
24-00000	24-01417	24-00037	24-00005	24-00107	24-00262
23-00000	23-01415	23-00053	23-00006	23-00127	23-00284
22-00003	22-01417	22-00052	22-00005	22-00122	22-00281
21-00003	21-01415	21-00048	21-00005	21-00114	21-00261
20-00003	20-00044	20-00044	20-00044	20-00044	20-00044
19-00003	19-00004	19-00004	19-00004	19-00004	19-00004
18-00003	18-00004	18-00004	18-00004	18-00004	18-00004
17-00003	17-00004	17-00004	17-00004	17-00004	17-00004
16-00003	16-00004	16-00004	16-00004	16-00004	16-00004
15-00202	15-00044	15-00001	15-00001	15-00001	15-00001
14-01944	14-00044	14-00001	14-00001	14-00001	14-00001
13-00044	13-00044	13-00001	13-00002	13-00001	13-00001
12-00752	12-00034	12-00001	12-00001	12-00001	12-00001
11-00594	11-00044	11-00001	11-00001	11-00001	11-00001
10-00184	10-00044	10-00001	10-00001	10-00001	10-00001
09-00200	09-00044	09-00001	09-00001	09-00001	09-00001
08-00154	08-00044	08-00001	08-00001	08-00001	08-00001
07-00174	07-00044	07-00001	07-00001	07-00001	07-00001
06-00080	06-00044	06-00001	06-00001	06-00001	06-00001
05-00111	05-00044	05-00001	05-00001	05-00001	05-00001
04-00105	04-00044	04-00001	04-00001	04-00001	04-00001
03-00147	03-00044	03-00001	03-00001	03-00001	03-00001
02-00155	02-00044	02-00001	02-00001	02-00001	02-00001
01-00052	01-00044	01-00001	01-00001	01-00001	01-00001
00157270	00157370	00157270	00157270	00201130	00201470
*1615780	*1615780	*1615780	*1615780	*1615780	*1615780

SHEET 2 of 5

12/8/78

PANEL TT802023-11-1

28-00421	28-00566	28-00714	28-00857	28-0100A	28-01149
27-00383	27-00517	27-00649	27-00779	27-00914	27-0103A
26-0051A	26-00561	26-00707	26-00855	26-01014	26-01172
25-00430	25-00577	25-00725	25-00872	25-01023	25-01165
24-00395	24-00530	24-00665	24-00797	24-00932	24-01057
23-00430	23-00576	23-00722	23-00869	23-01025	23-01176
22-0042A	22-0057A	22-00729	22-00880	22-01046	22-0121A
21-00396	21-00534	21-00674	21-00814	21-00966	21-01112
20-00419	20-0051A	20-0061A	20-0071A	20-0081A	20-0091A
19-00408	19-00506	19-00604	19-00704	19-00804	19-00904
18-00403	18-00501	18-00601	18-00701	18-00801	18-00901
17-00400	17-00500	17-00600	17-00700	17-00800	17-00900
16-00400	16-00500	16-00600	16-00700	16-00800	16-00900
15-00400	15-00500	15-00600	15-00700	15-00800	15-00900
14-00400	14-00500	14-00600	14-00700	14-00800	14-00900
13-00400	13-00500	13-00600	13-00700	13-00800	13-00900
12-00400	12-00500	12-00600	12-00700	12-00800	12-00900
11-00400	11-00500	11-00600	11-00700	11-00800	11-00900
10-00400	10-00500	10-00600	10-00700	10-00800	10-00900
09-00400	09-00500	09-00600	09-00700	09-00800	09-00900
08-00400	08-00500	08-00600	08-00700	08-00800	08-00900
07-00400	07-00500	07-00600	07-00700	07-00800	07-00900
06-00400	06-00500	06-00600	06-00700	06-00800	06-00900
05-00400	05-00500	05-00600	05-00700	05-00800	05-00900
04-00400	04-00500	04-00600	04-00700	04-00800	04-00900
03-00400	03-00500	03-00600	03-00700	03-00800	03-00900
02-00400	02-00500	02-00600	02-00700	02-00800	02-00900
01-00400	01-00500	01-00600	01-00700	01-00800	01-00900
002021201	00202400	00203030	00203440	00204070	00204440
*16157801	*1615780	*1615780	*1615780	*1615780	*16157801

30K

40K

50K

60K

70K

80K

SHEET 3 of 5

12/8/78

PANEL TT802023-11-1

28-01287  
27-01154  
26-01338  
25-01304  
24-01177  
23-01334  
22-01403  
21-01255  
20-00119  
19-00002  
18-00112  
17-00010  
16-00011  
15-00001  
14-00000  
13-00001  
12-00000  
11-00009  
10-00000  
09-00000  
08-00000  
07-00002  
06-00003  
05-00001  
04-00000  
03-00000  
02-00005  
01-00005  
00205420  
\*1615780

90K

28-01415  
27-01263  
26-01512  
25-01434  
24-01287  
23-01497  
22-01615  
21-01401  
20-00014  
19-00008  
18-00012  
17-00010  
16-00012  
15-00002  
14-00000  
13-00002  
12-00000  
11-00010  
10-00000  
09-00000  
08-00000  
07-00001  
06-00003  
05-00000  
04-00000  
03-00004  
02-00005  
01-00005  
00206110  
\*1615780

100K

28-01542  
27-01364  
26-01694  
25-01558  
24-01384  
23-01674  
22-01862  
21-01552  
20-00014  
19-00002  
18-00012  
17-00010  
16-00012  
15-00002  
14-00000  
13-00002  
12-00000  
11-00010  
10-00000  
09-00000  
08-00000  
07-00002  
06-00004  
05-00000  
04-00004  
03-00009  
02-00005  
01-00010  
00206330  
\*1615780

110K

28-01650  
27-01448  
26-01889  
25-01662  
24-01469  
23-01866  
22-02102  
21-01684  
20-00014  
19-00004  
18-00012  
17-00010  
16-00012  
15-00001  
14-00001  
13-00002  
12-00001  
11-00009  
10-00000  
09-00003  
08-00004  
07-00001  
06-00004  
05-00004  
04-00009  
03-00010  
02-00014  
01-00010  
00207050  
\*1615780

120K

28-01749  
27-01504  
26-02100  
25-01755  
24-01542  
23-02083  
22-02360  
21-01817  
20-00014  
19-00004  
18-00012  
17-00010  
16-00012  
15-00001  
14-00003  
13-00001  
12-00004  
11-00010  
10-00000  
09-00004  
08-00005  
07-00000  
06-00004  
05-00009  
04-00014  
03-00022  
02-00014  
01-00015  
00207350  
\*1615780

130K

28-01847  
27-01554  
26-02345  
25-01834  
24-01605  
23-02339  
22-02444  
21-01957  
20-00014  
19-00004  
18-00012  
17-00010  
16-00012  
15-00001  
14-00004  
13-00002  
12-00003  
11-00009  
10-00000  
09-00004  
08-00005  
07-00000  
06-00006  
05-00014  
04-00017  
03-00022  
02-00027  
01-00021  
00208240  
\*1615780

140K

TER073

SHEET 4 of 5

12/8/78

PANEL TT802023-11-1

26-00104	28-01845	28-01940	28-01943	28-02037	28-02099
27-00133	27-01543	27-01574	26-01545	27-01476	27-01362
26-00357	26-02379	26-02639	26-02815	26-03042	26-03296
25-00111	25-01625	25-01865	25-01878	25-01431	25-01742
24-00128	24-01598	24-01657	24-01678	24-01704	24-01729
23-00343	23-02374	23-02636	23-02804	23-03021	23-03259
22-00522	22-02684	22-02967	22-03130	22-03329	22-03562
21-00124	21-01965	21-02071	21-02107	21-02094	21-02036
20-00049	20-06014	20-06020	20-06026	20-06024	20-06014
19-00008	19-06007	19-06008	19-06008	19-06006	19-06008
18-00011	18-06011	18-06010	18-06010	18-06010	18-06010
17-00010	17-06011	17-06010	17-06010	17-06010	17-06010
16-00013	16-06014	16-06014	16-06014	16-06013	16-06013
15-00001	15-00001	15-00001	15-00004	15-00004	15-00005
14-00004	14-00005	14-00005	14-00004	14-00004	14-00004
13-00008	13-00002	13-00003	13-00002	13-00002	13-00002
12-00001	12-00000	12-00002	12-00003	12-00003	12-00001
11-00004	11-00010	11-00011	11-00010	11-00010	11-00011
10-00001	10-00000	10-00001	10-00001	10-00002	10-00002
09-00002	09-00006	09-00010	09-00009	09-00009	09-00006
08-00000	08-00007	08-00010	08-00009	08-00009	08-00012
07-00000	07-00000	07-00001	07-00000	07-00005	07-00009
06-00001	06-00007	06-00007	06-00006	06-00009	06-00008
05-00017	05-00019	05-00028	05-00032	05-00040	05-00052
04-00021	04-00021	04-00026	04-00035	04-00040	04-00052
03-00027	03-00027	03-00034	03-00040	03-00049	03-00062
02-00023	02-00028	02-00035	02-00040	02-00049	02-00059
01-00018	01-00024	01-00029	01-00033	01-00041	01-00050
0021090	00211520	00212601	002131201	002132901	00214130
*1615780	*1615780	*1615780	*16157801	*16157801	*16157801
Perm. Set Check	140K	150K	155K	160K	165K
@ 0					

SHEET 5 of 5

12/8/78

PANEL TT802023-11-1

28-02177  
27-01056  
26-03745  
25-01474  
24-01738  
23-03665  
22-03831  
21-01792  
20-00022  
19-00004  
18-00012  
17-00010  
16-00012  
15-00006  
14-00005  
13-00002  
12-00009  
11-00011  
10-00003  
09-00000  
08-00018  
07-00020  
06-00008  
05-00070  
04-00069  
03-00089  
02-00076  
01-00061  
0021400  
\*1615780

170K

28-02253  
27-01295  
26-07151  
25-00476  
24-01277  
23-06430  
22-04138  
21-00144  
20-00022  
19-00004  
18-00012  
17-00010  
16-00012  
15-00006  
14-00080  
13-00006  
12-00073  
11-00013  
10-00000  
09-00062  
08-00030  
07-00079  
06-00009  
05-00145  
04-00137  
03-00187  
02-00136  
01-00105  
00215090  
\*1615780

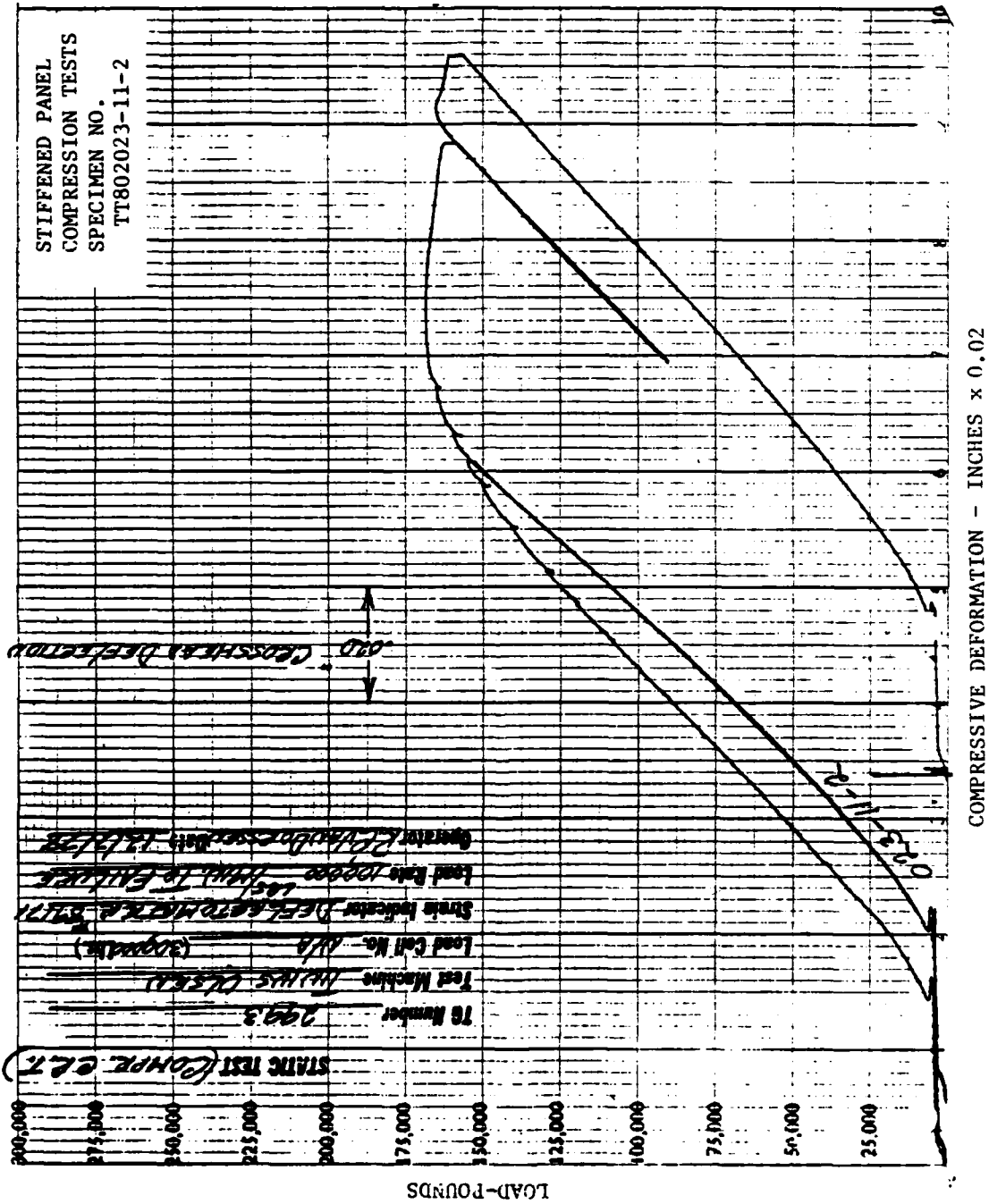
175K

28-04916  
27-12297  
26-26950  
25-10956  
24-05066  
23-25529  
22-03791  
21-02813  
20-00042  
19-00005  
18-00010  
17-00007  
16-00016  
15-00008  
14-00204  
13-00083  
12-00045  
11-00004  
10-00018  
09-00198  
08-00061  
07-00053  
06-00031  
05-00769  
04-00556  
03-00631  
02-00574  
01-00586  
00216060  
\*1615780

Post Buckling  
@ 140.6K

28-04851  
27-12279  
26-24487  
25-11109  
24-05030  
23-23300  
22-02523  
21-01656  
20-00034  
19-00004  
18-00010  
17-00004  
16-00012  
15-00012  
14-00166  
13-00066  
12-00063  
11-00000  
10-00023  
09-00177  
08-00036  
07-00075  
06-00013  
05-00475  
04-00556  
03-00631  
02-00573  
01-00499  
00217290  
\*1615780

Post Buckling  
0



SHEET 1 of 5

12/7/78

PANEL TT802023-11-2

Strain Gage Zero Ref.	Strain Gage R Cal.	DEFL. IND. ZERO REF. @5K	Test Start 0	10K	20K
34-00001	34+01417	34-00026	34-00002	34-00074	34-00164
33-00001	33+01415	33-00026	33-00003	33-00062	33-00166
32-00002	32+01415	32-00014	32-00007	32-00026	32-00043
31-00002	31+01414	31-00036	31-00006	31-00006	31-00190
30-00001	30+01414	30-00040	30-00009	30-00109	30-00221
29-00003	29+01414	29-00012	29-00006	29-00025	29-00043
28-00003	28+01411	28-00022	28-00002	28-00074	28-00203
27-00002	27+01413	27-00021	27-00002	27-00066	27-00186
26-00003	26+01413	26-00062	26-00013	26-00138	26-00290
25-00000	25+01415	25-00081	25-00012	25-00186	25-00328
24-00001	24+01413	24-00067	24-00010	24-00157	24-00310
23-00002	23+01415	23-00056	23-00016	23-00130	23-00283
22-00004	22+01412	22-00052	22-00009	22-00125	22-00274
21-00003	21+01412	21-00052	21-00008	21-00124	21-00272
20-00017	20+00066	20-00068	20-00024	20-00027	20-00024
19-00006	19+00002	19-00007	19-00010	19-00006	19-00005
18-00010	18+00006	18-00010	18-00010	18+00010	18-00010
17-00009	17+00003	17-00004	17-00007	17+00010	17-00007
16-00004	16+00004	16-00011	16-00010	16+00010	16-00010
15-00193	15-00183	15-00000	15-00000	15-00000	15-00000
14-00098	14-00098	14-00001	14-00000	14-00000	14-00001
13-00161	13-00161	13-00000	13-00000	13-00000	13-00001
12-00125	12-00125	12-00000	12-00000	12-00000	12-00001
11-00195	11-00195	11-00000	11-00002	11-00001	11-00001
10-00193	10-00193	10-00000	10-00001	10-00001	10-00001
09-00224	09-00225	09-00001	09-00000	09-00001	09-00001
08-00164	08-00165	08-00000	08-00000	08-00000	08-00000
07-00176	07-00176	07-00000	07-00000	07-00000	07-00000
06-00060	06-00059	06-00000	06-00000	06-00001	06-00004
05-00109	05-00108	05-00000	05-00000	05-00004	05-00001
04-00095	04-00095	04-00000	04-00009	04-00000	04-00000
03-00156	03-00156	03-00000	03-00013	03-00001	03-00002
02-00188	02-00188	02-00000	02-00011	02-00002	02-00002
01-00216	01-00215	01-00001	01-00010	01-00002	01-00001
00305120	00305300	00303370	00301240	00301500	00302080
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780



SHEET 2 of 5

12/7/78

PANEL TT802023-11-2

34-00253	34-00351	34-00448	34-00552	34-00650	34-00751
33-00265	33-00361	33-00454	33-00551	33-00641	33-00753
32-00057	32-00070	32-00082	32-00094	32-00105	32-00116
31-00271	31-00362	31-00449	31-00544	31-00632	31-00722
30-00320	30-00407	30-00494	30-00586	30-00673	30-00761
29-00057	29-00069	29-00079	29-00091	29-00101	29-00112
28-00341	28-00481	28-00619	28-00762	28-00892	28-01019
27-00314	27-00445	27-00574	27-00708	27-00833	27-00957
26-00435	26-00585	26-00732	26-00889	26-01040	26-01200
25-00530	25-00691	25-00847	25-01011	25-01164	25-01321
24-00444	24-00575	24-00699	24-00825	24-00939	24-01047
23-00429	23-00574	23-00719	23-00872	23-01024	23-01165
22-00418	22-00562	22-00703	22-00855	22-01013	22-01147
21-00416	21-00562	21-00706	21-00860	21-01015	21-01172
20-00424	20-00524	20-00624	20-00729	20-00828	20-00929
19-00406	19-00506	19-00606	19-00705	19-00806	19-00906
18-00406	18-00506	18-00606	18-00706	18-00806	18-00906
17-00406	17-00506	17-00606	17-00706	17-00806	17-00906
16-00406	16-00506	16-00606	16-00706	16-00806	16-00906
15-00000	15-00001	15-00000	15-00000	15-00001	15-00001
14-00004	14-00005	14-00005	14-00006	14-00005	14-00006
13-00001	13-00002	13-00002	13-00001	13-00004	13-00007
12-00003	12-00003	12-00002	12-00003	12-00003	12-00003
11-00002	11-00003	11-00002	11-00005	11-00006	11-00006
10-00000	10-00000	10-00000	10-00000	10-00001	10-00000
09-00001	09-00001	09-00000	09-00000	09-00000	09-00001
08-00000	08-00000	08-00000	08-00000	08-00000	08-00005
07-00000	07-00000	07-00000	07-00000	07-00000	07-00000
06-00003	06-00003	06-00004	06-00004	06-00003	06-00004
05-00000	05-00000	05-00000	05-00000	05-00000	05-00000
04-00000	04-00000	04-00000	04-00000	04-00000	04-00000
03-00003	03-00003	03-00004	03-00004	03-00005	03-00006
02-00001	02-00002	02-00002	02-00003	02-00002	02-00002
01-00001	01-00001	01-00001	01-00001	01-00001	01-00001
00322470	00322470	00323110	00324060	00324300	00324540
1204780	1204780	1204780	1204780	1204780	1204780
30K	40K	50K	60K	70K	80K

SHEET 3 of 5

12/7/78

PANEL TT802023-11-2

34-00855	34-01045	34-01142	34-01234	34-01336
33-00825	33-00981	33-01051	33-01111	33-01174
32-00128	32-00146	32-00157	32-00164	32-00172
31-00813	31-00990	31-01080	31-01164	31-01260
30-00652	30-01027	30-01108	30-01179	30-01244
29-00121	29-00146	29-00176	29-00215	29-00266
28-01139	28-01341	28-01414	28-01452	28-01490
27-01079	27-01309	27-01424	27-01531	27-01663
26-01367	26-01722	26-01933	26-02157	26-02444
25-01477	25-01774	25-01922	25-02065	25-02240
24-01144	24-01296	24-01339	24-01340	24-01274
23-01359	23-01727	23-01440	23-02164	23-02443
22-01376	22-01752	22-01454	22-02115	22-02228
21-01329	21-01661	21-01546	21-02036	21-02333
20-00623	20-00639	20-00639	20-00624	20-00636
19-00005	19-00005	19-00005	19-00006	19-00005
18-00010	18-00009	18-00009	18-00010	18-00009
17-00008	17-00007	17-00007	17-00007	17-00008
16-00010	16-00010	16-00010	16-00010	16-00010
15-00001	15-00001	15-00001	15-00001	15-00001
14-00010	14-00010	14-00015	14-00014	14-00018
13-00006	13-00011	13-00011	13-00014	13-00014
12-00007	12-00006	12-00008	12-00010	12-00010
11-00006	11-00006	11-00007	11-00008	11-00007
10-00000	10-00000	10-00000	10-00001	10-00001
09-00001	09-00005	09-00009	09-00009	09-00014
08-00010	08-00010	08-00014	08-00019	08-00024
07-00000	07-00000	07-00000	07-00000	07-00002
06-00003	06-00003	06-00005	06-00007	06-00008
05-00000	05-00000	05-00005	05-00009	05-00010
04-00004	04-00009	04-00014	04-00018	04-00027
03-00013	03-00018	03-00027	03-00036	03-00050
02-00007	02-00012	02-00016	02-00020	02-00029
01-00005	01-00006	01-00007	01-00010	01-00014
00375370	00376190	003772301	00328070	003233901
*1204780	*1204780	*1204780	*1204780	*1204780
90K	100K	110K	120K	130K
				140K

SHEET 4 of 5

12/7/78

PANEL TT802023-11-2

34-01430	34-00026	34-01493	34-01525	34-01551
33-01230	33-00043	33-01258	33-01287	33-01348
32-00178	32-00031	32-00173	32-00173	32-00173
31-01360	31-00039	31-01425	31-01474	31-01558
30-01268	30-00029	30-01296	30-01297	30-01264
29-00327	29-00030	29-00366	29-00397	29-00447
28-01266	28-00345	28-01051	28-00786	28-00068
27-01834	27-00129	27-01968	27-02121	27-02468
26-02627	26-03051	26-03101	26-03370	26-03944
25-02460	25-02601	25-02628	25-02806	25-03221
24-01046	24-00659	24-00373	24-00484	24-00290
23-02782	23-02979	23-00703	23-03278	23-03863
22-02196	22-02109	22-00837	22-01812	22-01089
21-02866	21-03240	21-00242	21-04148	21-06026
20-00030	20-00036	20-00030	20-00030	20-00030
19-00046	19-00046	19-00046	19-00046	19-00046
18-00046	18-00046	18-00046	18-00046	18-00046
17-00046	17-00046	17-00046	17-00046	17-00046
16-00046	16-00046	16-00046	16-00046	16-00046
15-00046	15-00046	15-00046	15-00046	15-00046
14-00046	14-00046	14-00046	14-00046	14-00046
13-00046	13-00046	13-00046	13-00046	13-00046
12-00046	12-00046	12-00046	12-00046	12-00046
11-00046	11-00046	11-00046	11-00046	11-00046
10-00046	10-00046	10-00046	10-00046	10-00046
09-00046	09-00046	09-00046	09-00046	09-00046
08-00046	08-00046	08-00046	08-00046	08-00046
07-00046	07-00046	07-00046	07-00046	07-00046
06-00046	06-00046	06-00046	06-00046	06-00046
05-00046	05-00046	05-00046	05-00046	05-00046
04-00046	04-00046	04-00046	04-00046	04-00046
03-00046	03-00046	03-00046	03-00046	03-00046
02-00046	02-00046	02-00046	02-00046	02-00046
01-00046	01-00046	01-00046	01-00046	01-00046
00329490	00329490	00329490	00329490	00329490
*1204760	*1204760	*1204760	*1204760	*1204760

Perm. Set Check / 155K

155K

150K

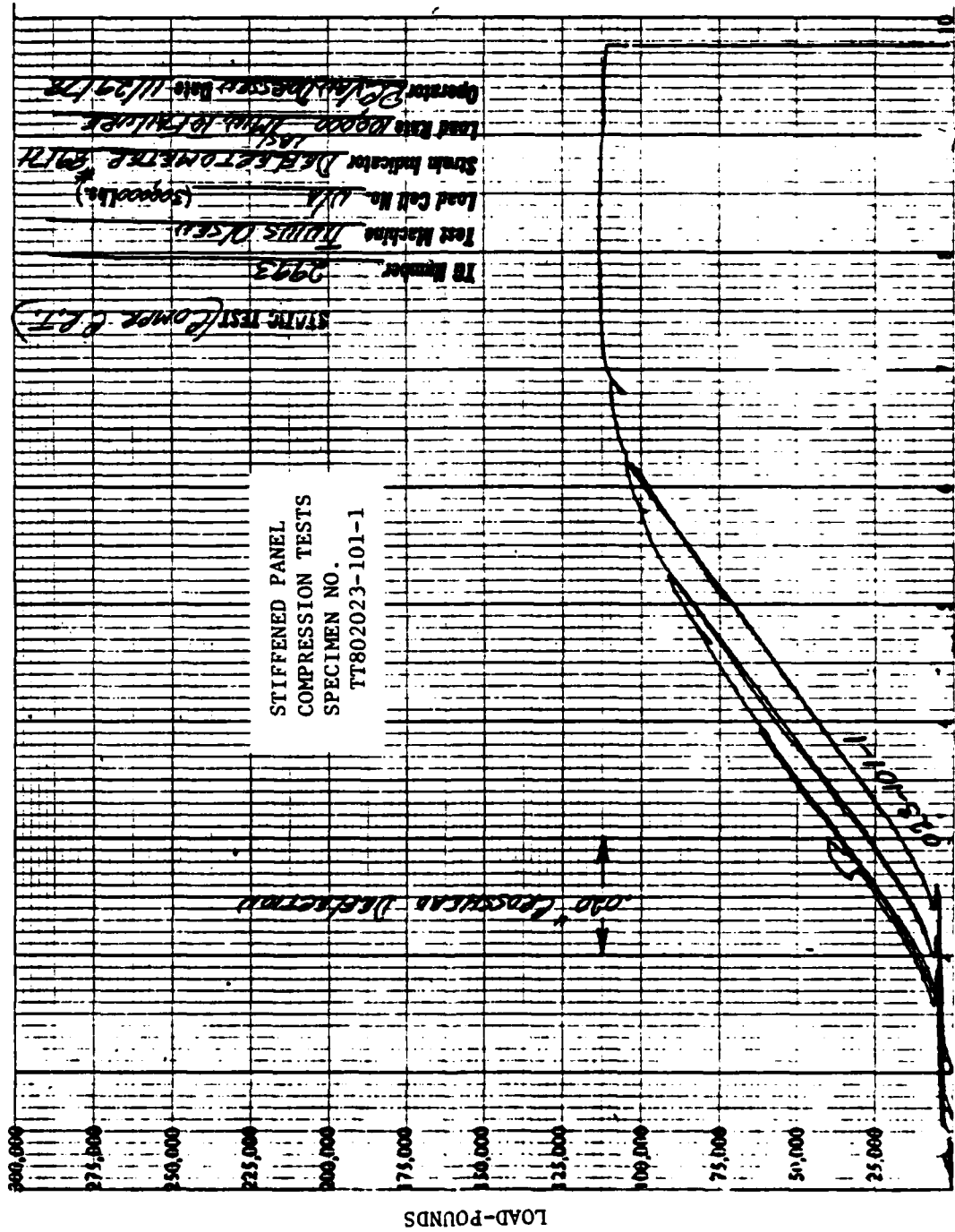
@ 0

160K

165K

PANEL TT802023-11-2 12/7/78

34-01449	34-01209	34-00105
33-01466	33-01545	33-00042
32-00140	32-00151	32-00116
31-01453	31-01664	31-00013
30-01052	30-00885	30-00103
29-00499	29-00517	29-00099
28-02570	28-06574	28-05240
27-03766	27-04264	27-0138A
26-06039	26-11988	26-08786
25-04399	25-04700	25-01629
24-02799	24-06592	24-05185
23-06039	23-11606	23-08673
22-02168	22-09385	22-08118
21-13324	21-74727	21-21925
20-00430	20-00029	20-00027
19-00006	19-00006	19-00006
18-00010	18-00010	18-00010
17-00007	17-00007	17-00007
16-00010	16-00010	16-00010
15-00001	15-00008	15-00000
14-00116	14-00167	14-00120
13-00135	13-00211	13-00144
12-00034	12-00052	12-00059
11-00000	11-00004	11-00001
10-00005	10-00010	10-00002
09-00125	09-00187	09-00130
08-00145	08-00217	08-00149
07-00031	07-00046	07-00059
06-00017	06-00026	06-00009
05-00022	05-00089	05-00075
04-00116	04-00222	04-00177
03-06274	03-00497	03-00421
02-00116	02-00216	02-00181
01-00003	01-00040	01-00031
00-310001	00-335450	00-339360
01204780	01204780	01615780
169K	Post Buckling	Post Buckling
MAXIMUM	165.5K	0
LOAD		



PANEL TT802023-101-1

Strain Gage		Zero Ref.		DEFL. IND.		ZERO REF.		@5K		Test Start "0"		@.5K		10K		20K		30K		30K	
34-00001	15-00000	34-00005	34-00234	34-00478	34-00722	34-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001	14-00001
33-00000	14-00001	33-00002	33-00047	33-00094	33-00141	33-00001	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000	13-00000
32-00000	13-00001	32-00006	32-00053	32-00100	32-00147	32-00001	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000	12-00000
31-00000	12-00000	31-00012	31-00059	31-00106	31-00153	31-00001	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000	11-00000
30-00000	11-00000	30-00011	30-00058	30-00105	30-00152	30-00001	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000	10-00000
29-00001	10-00000	29-00005	29-00054	29-00101	29-00148	29-00001	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000	09-00000
28-00001	09-00001	28-00000	28-00049	28-00096	28-00143	28-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000	08-00000
27-00000	08-00001	27-00001	27-00050	27-00097	27-00144	27-00001	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000	07-00000
26-00002	07-00001	26-00001	26-00051	26-00098	26-00145	26-00001	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000	06-00000
25-00001	06-00000	25-00005	25-00054	25-00101	25-00148	25-00001	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000	05-00000
24-00001	05-00000	24-00004	24-00053	24-00100	24-00147	24-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000	04-00000
23-00002	04-00000	23-00007	23-00056	23-00103	23-00150	23-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000	03-00000
22-00001	03-00000	22-00006	22-00055	22-00102	22-00149	22-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000	02-00000
21-00000	02-00000	21-00011	21-00060	21-00107	21-00154	21-00001	01-00000	01-00000	01-00000	01-00000</											

SHEET 2 of 4

11/29/78

PANEL TT802023-101-1

34-01237	34-01498	34-00030	34-01491	34-01793
33-00199	33-00226	33-00004	33-00226	33-00246
32-00866	32-01043	32-00013	32-01044	32-01226
31-00303	31-00315	31-00107	31-00305	31-00292
30-01350	30-01446	30-00033	30-01651	30-01499
29-00437	29-01011	29-00018	29-01024	29-01209
28-00477	28-00544	28-00054	28-00538	28-00598
27-00624	27-00710	27-00050	27-00697	27-00761
26-01309	26-01664	26-00171	26-01686	26-02089
25-00623	25-00715	25-00073	25-00706	25-00788
24-00389	24-00430	24-00081	24-00425	24-00454
23-01316	23-01667	23-00233	23-01687	23-02064
22-00207	22-00436	22-00329	22-00468	22-00725
21-01691	21-02158	21-00491	21-02192	21-02647
20-00037	20-00037	20-00037	20-00437	20-00437
19-00004	19-00004	19-00004	19-00004	19-00004
18-00004	18-00004	18-00004	18-00004	18-00004
17-00004	17-00004	17-00004	17-00004	17-00004
16-00004	16-00004	16-00004	16-00004	16-00004
15-00001	15-00001	15-00001	15-00001	15-00001
14-00014	14-00014	14-00000	14-00012	14-00014
13-00014	13-00014	13-00000	13-00014	13-00014
12-00007	12-00007	12-00002	12-00007	12-00007
11-00001	11-00001	11-00000	11-00000	11-00001
10-00008	10-00008	10-00005	10-00009	10-00012
09-00005	09-00005	09-00004	09-00001	09-00001
08-00003	08-00003	08-00001	08-00004	08-00003
07-00003	07-00003	07-00004	07-00008	07-00013
06-00004	06-00004	06-00002	06-00005	06-00006
05-00004	05-00004	05-00009	05-00004	05-00013
04-00014	04-00014	04-00009	04-00014	04-00018
03-00004	03-00004	03-00000	03-00005	03-00014
02-00008	02-00008	02-00009	02-00012	02-00017
01-00000	01-00000	01-00009	01-00004	01-00013
0155330	0155330	01557180	01601550	01603530
01129780	01129780	01129780	01129780	01129780

Perm Set Check  
@ .5K

60K

50K

40K

70K

SHEET 3 of 4

11/29/78

PANEL TT802023-101-1

34-02162	34-00414	34-02490	34-02778	34-02816
33-00173	33-00311	33-00095	33-00028	33-00009
32-01418	32-00084	32-01662	32-01894	32-02080
31-00223	31-00524	31-00166	31-00094	31-00016
30-02672	30-01065	30-03270	30-03673	30-04128
29-01408	29-00060	29-01673	29-01917	29-02159
28-00596	28-00240	28-00549	28-00411	28-00215
27-00742	27-00255	27-00672	27-00501	27-00281
26-02642	26-03218	26-03347	26-04262	26-05146
25-00600	25-00242	25-00795	25-00728	25-00618
24-00416	24-00265	24-00341	24-00175	24-00032
23-02528	23-00725	23-03103	23-03610	23-04449
22-01043	22-01277	22-01329	22-01635	22-01874
21-02950	21-00979	21-03128	21-03209	21-03220
20-00037	20-00039	20-00637	20-00034	20-00041
19-00004	19-00006	19-00637	19-00006	19-00004
18-00004	18-00006	18-00637	18-00006	18-00004
17-00004	17-00006	17-00637	17-00006	17-00004
16-00004	16-00006	16-00637	16-00006	16-00004
15-00001	15-00004	15-00003	15-00012	15-00021
14-00013	14-00014	14-00005	14-00000	14-00018
13-00008	13-00001	13-00001	13-00008	13-00012
12-00002	12-00002	12-00000	12-00006	12-00016
11-00000	11-00001	11-00000	11-00000	11-00006
10-00017	10-00017	10-00026	10-00034	10-00048
09-00003	09-00006	09-00012	09-00026	09-00048
08-00006	08-00006	08-00009	08-00015	08-00018
07-00018	07-00021	07-00006	07-00021	07-00017
06-00008	06-00006	06-00009	06-00008	06-00009
05-00031	05-00044	05-00027	05-00060	05-00110
04-00027	04-00036	04-00022	04-00054	04-00067
03-00019	03-00022	03-00006	03-00022	03-00018
02-00027	02-00034	02-00022	02-00053	02-00067
01-00027	01-00036	01-00028	01-00062	01-00077
01005420	01008090	01012060	01013080	01013530
*1129780	*112978C	*1129780	*112978C	*1129780
80K	90K	90K	100K	105K
		Perm. Set Check @ .5K		



SHEET 4 of 4

11/29/78

PANEL TT802023-101-1

34-00017	34-02773	34-00960	34-00209
33-00781	33-00012	33-01202	33-00485
32-00253	32-02121	32-00496	32-02581
31-01165	31-00040	31-01861	31-01190
30-02146	30-04175	30-02941	30-01649
29-00301	29-02204	29-01440	29-03160
28-00543	28-00127	28-01467	28-01477
27-00571	27-00228	27-03871	27-03859
26-02103	26-05268	26-05716	26-05716
25-00448	25-00589	25-01984	25-01976
24-00523	24-00078	24-02697	24-02723
23-01550	23-04542	23-06190	23-06186
22-01097	22-01911	22-04065	22-04620
21-01076	21-03200	21-02294	21-02701
20-00040	20-00041	20-00055	20-00055
19-00000	19-00001	19-00061	19-00061
18-00005	18-00006	18-00084	18-00084
17-00003	17-00004	17-00001	17-00001
16-00006	16-00006	16-00006	16-00006
15-00004	15-00022	15-00046	15-00046
14-00015	14-00022	14-00384	14-00581
13-00013	13-00013	13-00520	13-00020
12-00002	12-00020	12-00264	12-00283
11-00005	11-00010	11-00063	11-00060
10-00024	10-00046	10-00164	10-00230
09-00026	09-00053	09-00095	09-00716
08-00014	08-00023	08-00064	08-00720
07-00006	07-00014	07-00248	07-00304
06-00004	06-00009	06-00075	06-00109
05-00057	05-00114	05-00499	05-00500
04-00040	04-00071	04-00516	04-00516
03-00005	03-00014	03-00082	03-00481
02-00040	02-00071	02-00495	02-00494
01-00058	01-00085	01-00453	01-00453
01015410	01617240	01622200	01623320
*1129780	*1129780	*1129780	*1129780

Perm. Set Check  
@ .5K

105K

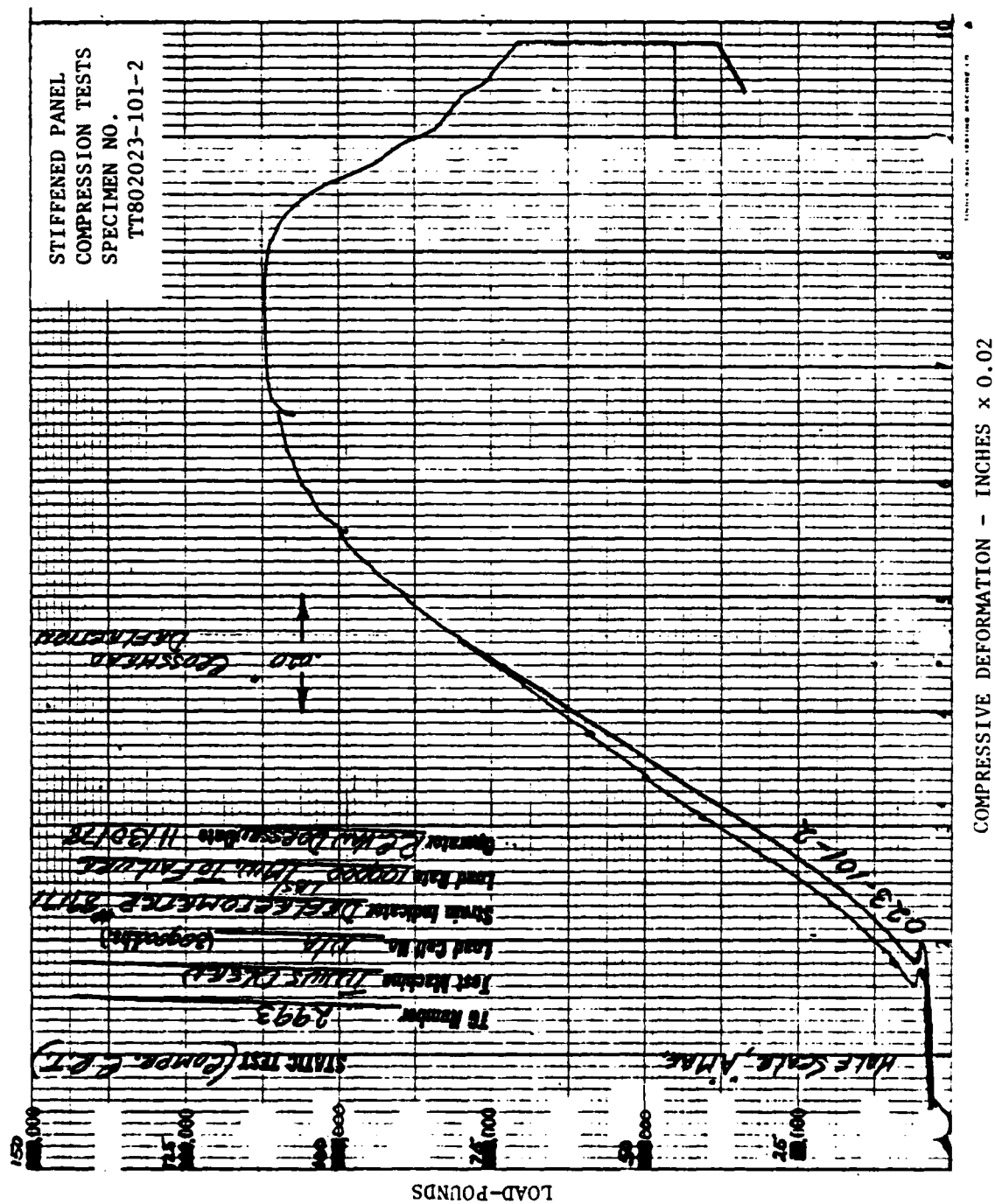
110K

115K

Perm. Set Check  
@ .5K

71K

POST-BUCKLING  
MAX. LOAD



SHEET 1 of 4

11/30/78

PANEL TT802023-101-2

34-00000  
33-00001  
32-00001  
31-00000  
30-00000  
29-00002  
28-00001  
27-00000  
26-00001  
25-00000  
24-00001  
23-00000  
22-00000  
21-00002  
01124370  
01130780

Strain Gage  
Zero Ref.

15-00001  
14-00000  
13-00000  
12-00001  
11-00001  
10-00001  
09-00000  
08-00000  
07-00000  
06-00000  
05-00000  
04-00001  
03-00000  
02-00001  
01-00000  
01128170  
01130780

DEFL. IND.  
ZERO REF.

@5K

34-01418  
33-01418  
32-01418  
31-01420  
30-01417  
29-01413  
28-01415  
27-01416  
26-01415  
25-01415  
24-01414  
23-01414  
22-01417  
21-01415  
01124480  
01130780

Strain Gage  
R Cal

34-00007  
33-00002  
32-00006  
31-00002  
30-00005  
29-00010  
28-00002  
27-00002  
26-00007  
25-00001  
24-00001  
23-00013  
22-00002  
21-00014  
20-00001  
19-00004  
18-00005  
17-00003  
16-00006  
15-00000  
14-00001  
13-00000  
12-00001  
11-00000  
10-00000  
09-00000  
08-00000  
07-00001  
06-00000  
05-00010  
04-00009  
03-00004  
02-00011  
01-00009  
01124420  
01130780

Test Start "0"  
@ .5K

34-00144  
33-00071  
32-00118  
31-00079  
30-00181  
29-00142  
28-00092  
27-00124  
26-00170  
25-00110  
24-00110  
23-00201  
22-00023  
21-00256  
20-00042  
19-00001  
18-00005  
17-00003  
16-00005  
15-00000  
14-00000  
13-00000  
12-00001  
11-00000  
10-00000  
09-00000  
08-00000  
07-00001  
06-00002  
05-00001  
04-00000  
03-00000  
02-00001  
01-00000  
01129450  
01130780

10K

34-00331  
33-00146  
32-00316  
31-00187  
30-00446  
29-00341  
28-00215  
27-00296  
26-00412  
25-00277  
24-00271  
23-00467  
22-00042  
21-00603  
20-00042  
19-00001  
18-00005  
17-00003  
16-00005  
15-00000  
14-00000  
13-00000  
12-00001  
11-00000  
10-00001  
09-00000  
08-00001  
07-00001  
06-00004  
05-00001  
04-00000  
03-00004  
02-00000  
01-00001  
01130170  
01130780

20K

34-00514  
33-00217  
32-00484  
31-00276  
30-00484  
29-00510  
28-00320  
27-00454  
26-00643  
25-00417  
24-00401  
23-00704  
22-00041  
21-00926  
20-00644  
19-00000  
18-00005  
17-00002  
16-00006  
15-00000  
14-00000  
13-00000  
12-00003  
11-00000  
10-00001  
09-00000  
08-00003  
07-00002  
06-00004  
05-00001  
04-00000  
03-00004  
02-00001  
01-00005  
01130540  
01130780

30K

SHEET 2 of 4

11/30/78

PANEL TT802023-101-2

34-00721	34-00950	34-01151	34-01399	34-01651	34-00055
33-00293	33-00377	33-00438	33-00492	33-00513	33-00051
32-00452	32-00413	32-00460	32-01142	32-01322	32-00047
31-00360	31-00430	31-00491	31-00545	31-00561	31-00029
30-00426	30-01176	30-01410	30-01718	30-02037	30-00045
29-00483	29-00464	29-01023	29-01210	29-01392	29-00047
28-00412	28-00485	28-00517	28-00518	28-00459	28-00159
27-00621	27-00794	27-00938	27-01109	27-01245	27-00092
26-00405	26-01200	26-01488	26-01842	26-02207	26-00333
25-00351	25-00475	25-00771	25-00866	25-00921	25-00129
24-00520	24-00619	24-00688	24-00740	24-00738	24-00142
23-00361	23-01254	23-01564	23-01976	23-02424	23-00433
22-00611	22-00102	22-00294	22-00573	22-00601	22-00495
21-01327	21-01873	21-02503	21-03241	21-03A66	21-01497
20-00443	20-00443	20-00542	20-00642	20-00642	20-00042
19-00400	19-00400	19-00500	19-00601	19-00601	19-00042
18-00604	18-00604	18-00605	18-00605	18-00605	18-00042
17-00303	17-00303	17-00602	17-00603	17-00603	17-00042
16-00004	16-00004	16-00004	16-00004	16-00004	16-00004
15-00001	15-00001	15-00000	15-00003	15-00006	15-00000
14-00000	14-00002	14-00004	14-00009	14-00013	14-00000
13-00000	13-00000	13-00000	13-00000	13-00001	13-00000
12-00005	12-00011	12-00017	12-00025	12-00037	12-00002
11-00001	11-00002	11-00004	11-00005	11-00009	11-00001
10-00001	10-00001	10-00001	10-00001	10-00002	10-00000
09-00000	09-00000	09-00000	09-00005	09-00011	09-00001
08-00004	08-00005	08-00005	08-00009	08-00014	08-00005
07-00006	07-00006	07-00010	07-00016	07-00027	07-00000
06-00005	06-00005	06-00009	06-00009	06-00013	06-00004
05-00001	05-00001	05-00000	05-00005	05-00012	05-00018
04-00004	04-00004	04-00005	04-00009	04-00017	04-00016
03-00005	03-00005	03-00004	03-00005	03-00005	03-00009
02-00002	02-00002	02-00003	02-00008	02-00012	02-00016
01-00009	01-00009	01-00014	01-00023	01-00037	01-00014
0113340	0113340	0113400	0113529	0113629	0113751
0113078	0113078	0113078	0113078	0113078	0113078
	50K	60K	70K	80K	

Perm. Set Check  
@ .5K

SHEET 3 of 4

11/30/78

PANEL TT802023-101-2

34-01487	34-01905	34-02287	34-02490	34-02748
33-00405	33-00495	33-00434	33-00169	33-00441
32-01328	32-01521	32-01942	32-02200	32-01365
31-00565	31-00524	31-00393	31-00026	31-01184
30-02051	30-02497	30-04002	30-05004	30-06231
29-01394	29-01572	29-01793	29-01905	29-01175
28-00449	28-00307	28-00670	28-00456	28-01451
27-01236	27-01367	27-01514	27-01633	27-01971
26-02223	26-02450	26-03316	26-03842	26-04975
25-00414	25-00645	25-00922	25-00917	25-01027
24-00732	24-00656	24-00327	24-00663	24-01144
23-02460	23-02598	23-03415	23-04443	23-05767
22-00420	22-01235	22-01457	22-01974	22-02339
21-03909	21-04267	21-04542	21-04697	21-03219
20-00443	20-00644	20-00844	20-00948	20-00322
19-00601	19-00604	19-00600	19-00604	19-00604
18-00006	18-00004	18-00005	18-00005	18-00002
17-00003	17-00003	17-00007	17-00007	17-00004
16-00006	16-00005	16-00005	16-00004	16-00004
15-00006	15-00005	15-00010	15-00009	15-00004
14-00013	14-00022	14-00034	14-00047	14-00233
13-00001	13-00000	13-00004	13-00009	13-00031
12-00038	12-00055	12-00094	12-00141	12-01105
11-00009	11-00013	11-00022	11-00032	11-00177
10-00003	10-00003	10-00022	10-00005	10-00004
09-00004	09-00022	09-00040	09-00062	09-00280
08-00014	08-00023	08-00040	08-00053	08-00108
07-00028	07-00045	07-00093	07-00143	07-00954
06-00013	06-00017	06-00024	06-00039	06-00179
05-00013	05-00018	05-00031	05-00036	05-00623
04-00018	04-00022	04-00035	04-00040	04-00619
03-00004	03-00005	03-00000	03-00004	03-00448
02-00015	02-00024	02-00034	02-00043	02-00613
01-00037	01-00054	01-00082	01-00105	01-00537
01139070	01139190	01140470	01142000	01142560
01130780	01130780	01130780	01130780	01130780
80K	90K	100K	105K	110K
				112.5K

TER073

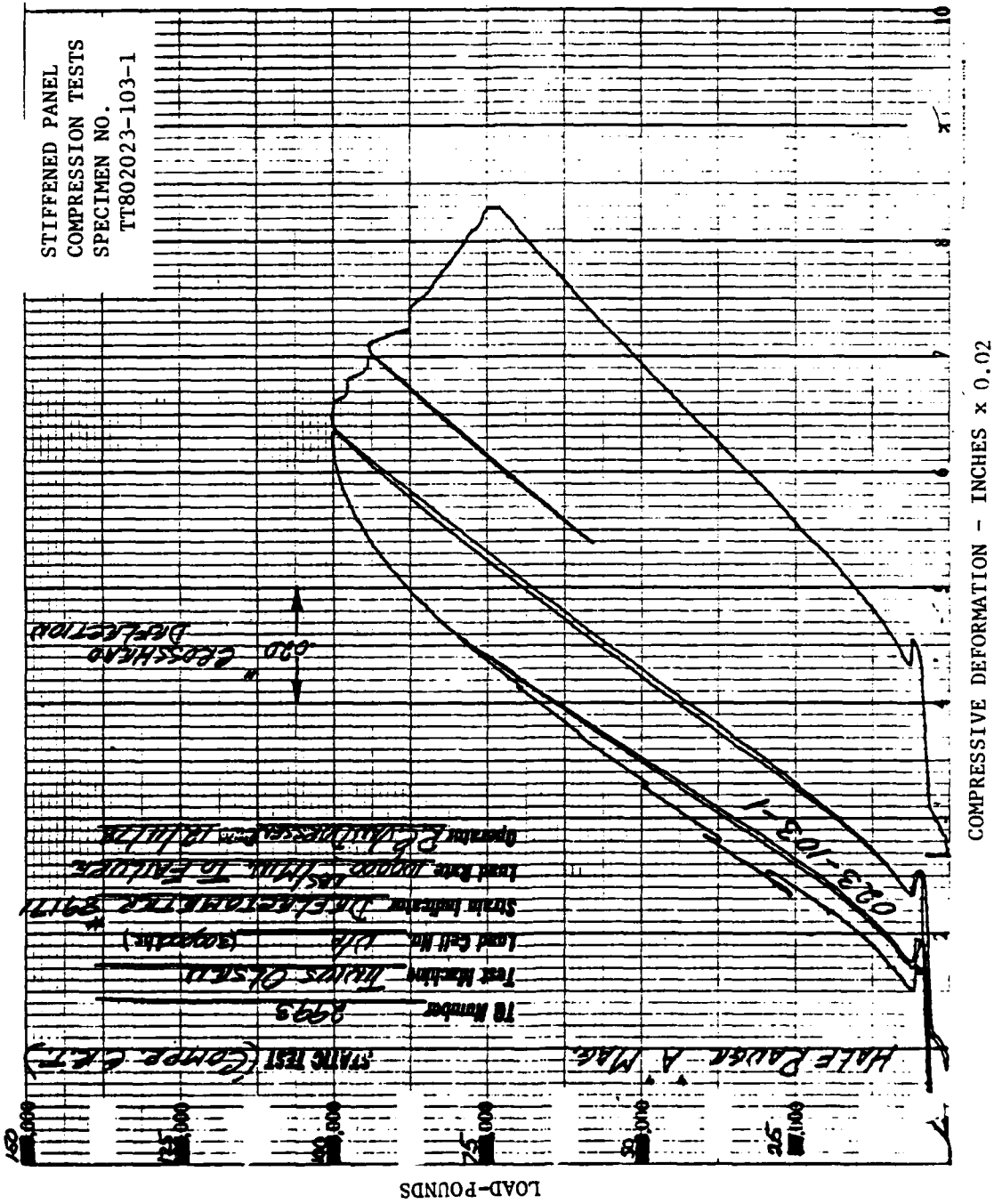
SHEET 4 of 4

11/30/78

PANEL TT802023-101-2

34-02550  
33-00729  
32-01120  
31-01261  
30-05993  
29-00930  
28-01729  
27-00000  
26-05317  
25-16215  
24-01643  
23-06075  
22-01746  
21-02598  
20-00000  
19-00005  
18-00010  
17-00003  
16-00010  
15-00001  
14-00210  
13-00033  
12-01153  
11-00190  
10-00005  
09-00266  
08-00143  
07-00058  
06-00196  
05-00095  
04-00081  
03-00071  
02-00076  
01-00041  
0114090  
01130780

Post Buckling  
@ 52.5K



SHEET 1 of 4

12/11/78

PANEL TT802023-103-1

34-00002	34-01417	34-00003	34-00070	34-00175	34-00349
33-00001	33-01420	33-00004	33-00082	33-00211	33-00447
32-00000	32-01419	32-00001	32-00063	32-00142	32-00297
31-00002	31-01416	31-00004	31-00007	31-00010	31-00011
30-00001	30-01417	30-00003	30-00070	30-00189	30-00417
29-00001	29-01418	29-00002	29-00040	29-00122	29-00404
28-00002	28-01417	28-00003	28-00074	28-00169	28-00403
27-00001	27-01418	27-00001	27-00052	27-00135	27-00280
26-00002	26-01416	26-00003	26-00063	26-00149	26-00316
25-00000	25-01416	25-00001	25-00032	25-00088	25-00201
24-00003	24-01416	24-00003	24-00063	24-00168	24-00351
23-00001	23-01416	23-00003	23-00073	23-00178	23-00375
22-00002	22-01419	22-00002	22-00061	22-00149	22-00318
21-00000	21-01418	21-00000	21-00062	21-00156	21-00341
20-00000	20-00000	20-00000	20-00000	20-00000	20-00000
19-00000	19-00000	19-00000	19-00000	19-00000	19-00000
18-00000	18-00000	18-00000	18-00000	18-00000	18-00000
17-00000	17-00000	17-00000	17-00000	17-00000	17-00000
16-00000	16-00000	16-00000	16-00000	16-00000	16-00000
15-00000	15-00000	15-00000	15-00000	15-00000	15-00000
14-00000	14-00000	14-00000	14-00000	14-00000	14-00000
13-00000	13-00000	13-00000	13-00000	13-00000	13-00000
12-00000	12-00000	12-00000	12-00000	12-00000	12-00000
11-00000	11-00000	11-00000	11-00000	11-00000	11-00000
10-00000	10-00000	10-00000	10-00000	10-00000	10-00000
09-00000	09-00000	09-00000	09-00000	09-00000	09-00000
08-00000	08-00000	08-00000	08-00000	08-00000	08-00000
07-00000	07-00000	07-00000	07-00000	07-00000	07-00000
06-00000	06-00000	06-00000	06-00000	06-00000	06-00000
05-00000	05-00000	05-00000	05-00000	05-00000	05-00000
04-00000	04-00000	04-00000	04-00000	04-00000	04-00000
03-00000	03-00000	03-00000	03-00000	03-00000	03-00000
02-00000	02-00000	02-00000	02-00000	02-00000	02-00000
01-00000	01-00000	01-00000	01-00000	01-00000	01-00000
015370901	015370901	015370901	015370901	015370901	015370901
012117801	012117801	012117801	012117801	012117801	012117801

Strain Gage  
Zero Ref.Strain Gage  
R CalTest Start  
0DEFL. IND.  
ZERO REF.

Repeat 0

20K

@5K



SHEET 2 of 4

12/11/78

PANEL TT802023-103-1

34-00520  
33-00440  
32-00447  
31-00014  
30-00651  
29-00484  
28-00617  
27-00414  
26-00486  
25-00311  
24-00627  
23-00565  
22-00477  
21-00530  
20-00609  
19-00010  
18-00014  
17-00012  
16-00014  
15-00000  
14-00013  
13-00033  
12-00032  
11-00017  
10-00009  
09-00022  
08-00031  
07-00011  
06-00009  
05-00022  
04-00006  
03-00021  
02-00013  
01-00014  
015560  
\*1211780

30K

34-00487  
33-00784  
32-00586  
31-00030  
30-00884  
29-00663  
28-00641  
27-00543  
26-00660  
25-00412  
24-00882  
23-00754  
22-00427  
21-00730  
20-00004  
19-00010  
18-00014  
17-00012  
16-00014  
15-00002  
14-00020  
13-00051  
12-00052  
11-00026  
10-00014  
09-00035  
08-00049  
07-00020  
06-00013  
05-00037  
04-00005  
03-00035  
02-00017  
01-00029  
015562101  
\*12117801

40K

34-00433  
33-00921  
32-00714  
31-00055  
30-01102  
29-00434  
28-01074  
27-00661  
26-00842  
25-00500  
24-01154  
23-00945  
22-00781  
21-00932  
20-00004  
19-00010  
18-00014  
17-00012  
16-00014  
15-00001  
14-00033  
13-00077  
12-00075  
11-00035  
10-00021  
09-00053  
08-00075  
07-00034  
06-00014  
05-00054  
04-00014  
03-00054  
02-00031  
01-00039  
01557250  
\*12117801

50K

34-00982  
33-01183  
32-00470  
31-00176  
30-01367  
29-01179  
28-01424  
27-00424  
26-01233  
25-00576  
24-01401  
23-01365  
22-00713  
21-01722  
20-00014  
19-00010  
18-00014  
17-00012  
16-00014  
15-00000  
14-00083  
13-00175  
12-00160  
11-00061  
10-00040  
09-00115  
08-00164  
07-00047  
06-00022  
05-00120  
04-00041  
03-00124  
02-00066  
01-00096  
015582601  
\*1211780

70K

34-10677  
33-00487  
32-00847  
31-11546  
30-11559  
29-00509  
28-00859  
27-00261  
26-00504  
25-00113  
24-00347  
23-00556  
22-00713  
21-00931  
20-00014  
19-00010  
18-00014  
17-00012  
16-00014  
15-00209  
14-00674  
13-00370  
12-00238  
11-00079  
10-00476  
09-00594  
08-00362  
07-00187  
06-00005  
05-00151  
04-00221  
03-00362  
02-00229  
01-00134  
016081501  
\*12117801

Perm. Set Check  
@ 0

SHEET 3 of 4

12/11/78

PANEL TT802023-103-1

34-01018	34-00307	34-01044	34-01274	34-02344	34-03331
33-01237	33-01054	33-01227	33-01196	33-01121	33-00916
32-01110	32-00044	32-01095	32-01172	32-01254	32-01311
31-00184	31-00220	31-00167	31-00169	31-00006	31-00370
30-01373	30-00059	30-01299	30-01313	30-01347	30-01461
29-01389	29-00054	29-01401	29-01415	29-01677	29-01A5A
28-01923	28-00057	28-01417	28-0211A	28-02340	28-02560
27-00A63	27-00050	27-00A5A	27-00A59	27-00833	27-00774
26-01434	26-00100	26-01437	26-01453	26-01694	26-01A52
25-00535	25-00033	25-00530	25-00471	25-00365	25-00193
24-02134	24-00029	24-02127	24-02354	24-02599	24-02850
23-01594	23-00103	23-01599	23-01732	23-01A98	23-02091
22-00A67	22-00035	22-00640	22-00580	22-00530	22-00497
21-02180	21-00530	21-02199	21-02297	21-02356	21-02300
20-00049	20-00049	20-00049	20-00049	20-00049	20-00049
19-00049	19-00049	19-00049	19-00049	19-00049	19-00049
18-00049	18-00049	18-00049	18-00049	18-00049	18-00049
17-00049	17-00049	17-00049	17-00049	17-00049	17-00049
16-00049	16-00049	16-00049	16-00049	16-00049	16-00049
15-00049	15-00049	15-00049	15-00049	15-00049	15-00049
14-00049	14-00049	14-00049	14-00049	14-00049	14-00049
13-00049	13-00049	13-00049	13-00049	13-00049	13-00049
12-00049	12-00049	12-00049	12-00049	12-00049	12-00049
11-00049	11-00049	11-00049	11-00049	11-00049	11-00049
10-00049	10-00049	10-00049	10-00049	10-00049	10-00049
09-00049	09-00049	09-00049	09-00049	09-00049	09-00049
08-00049	08-00049	08-00049	08-00049	08-00049	08-00049
07-00049	07-00049	07-00049	07-00049	07-00049	07-00049
06-00049	06-00049	06-00049	06-00049	06-00049	06-00049
05-00049	05-00049	05-00049	05-00049	05-00049	05-00049
04-00049	04-00049	04-00049	04-00049	04-00049	04-00049
03-00049	03-00049	03-00049	03-00049	03-00049	03-00049
02-00049	02-00049	02-00049	02-00049	02-00049	02-00049
01-00049	01-00049	01-00049	01-00049	01-00049	01-00049
015490701	01600110	01602210	01602410	01603050	01603210
*1211780	*1211780	*1211780	*1211780	*1211780	*1211780

Perm. Set Check  
@ 0

80K

80K

85K

90K

95K

SHEET 4 of 4

12/12/78

PANEL TT802023-103-1

34-04992  
33-00103  
32-01335  
31-01705  
30-02362  
29-02186  
28-02796  
27-00748  
26-02125  
25-00230  
24-03298  
23-02429  
22-00402  
21-02002  
20-00619  
19-00009  
18-00018  
17-00012  
16-00014  
15-00068  
14-00473  
13-00421  
12-00495  
11-00172  
10-00171  
09-00320  
08-00618  
07-00323  
06-00045  
05-00421  
04-00226  
03-00435  
02-00279  
01-00355  
0103440  
\*1211780\*

100K

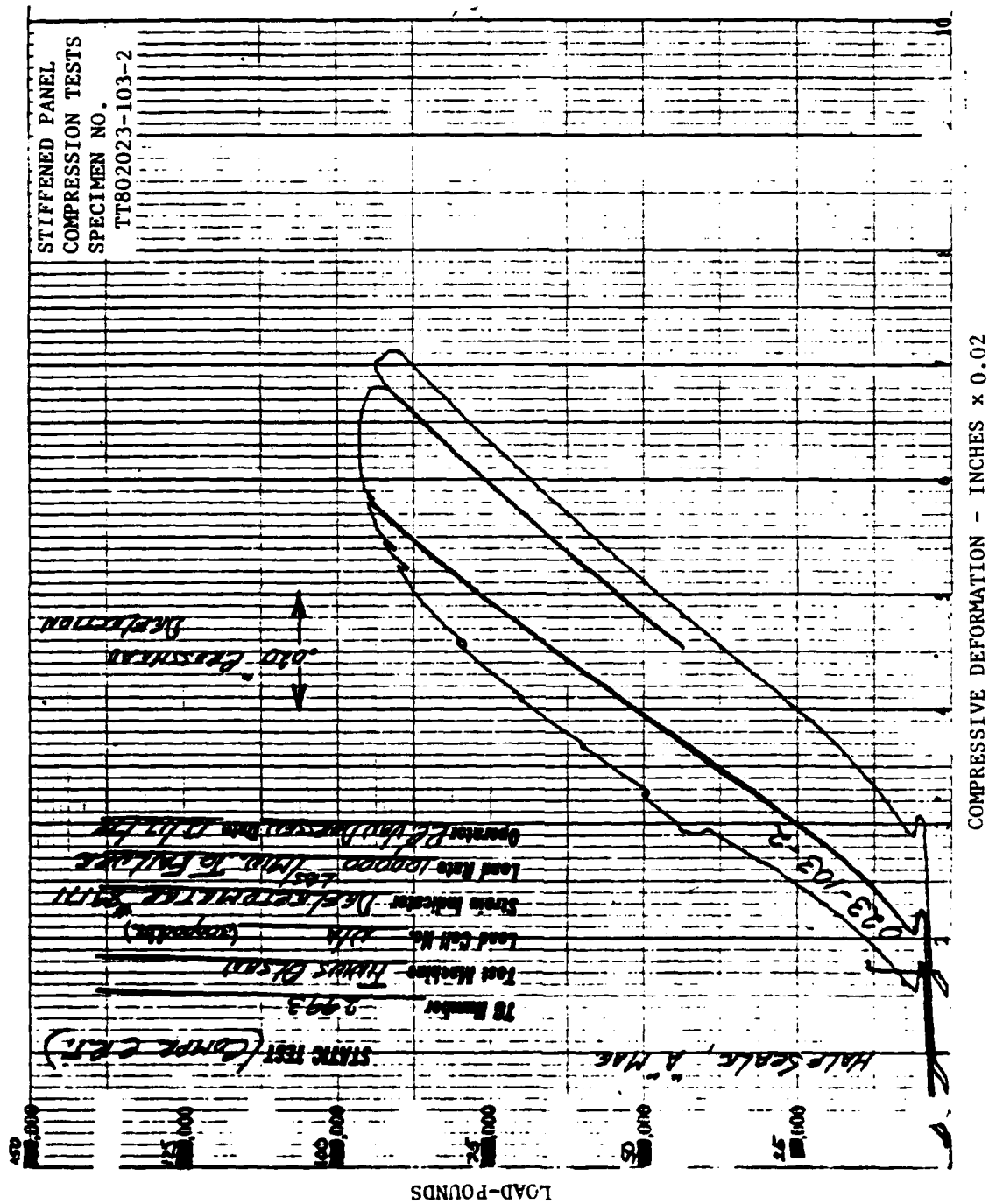
34-06445  
33-03592  
32-00050  
31-02407  
30-02470  
29-00515  
28-00116  
27-00136  
26-00382  
25-00195  
24-00047  
23-00475  
22-00542  
21-01151  
20-00019  
19-00009  
18-00014  
17-00011  
16-00014  
15-00041  
14-00172  
13-00161  
12-00140  
11-00061  
10-00094  
09-00185  
08-00161  
07-00098  
06-00018  
05-00138  
04-00032  
03-00112  
02-00053  
01-00115  
0104430  
\*1211780\*

Perm. Set Check  
@ 0

100K

34-05470  
33-01390  
32-00490  
31-06942  
30-07577  
29-01938  
28-01960  
27-01447  
26-02112  
25-00058  
24-03196  
23-02382  
22-00134  
21-01683  
20-00020  
19-00009  
18-00014  
17-00011  
16-00014  
15-00158  
14-00721  
13-00087  
12-00526  
11-00188  
10-00286  
09-00199  
08-00708  
07-00338  
06-00058  
05-00438  
04-00287  
03-00520  
02-00363  
01-00365  
0106190C  
\*1211780C

100.5K



@5K

12/12/78

PANEL TT802023-103-2

34-00009	34-00004	34-00330	34-00744
33-01170	33-02433	33-05239	33-07414
32-00417	32-00667	32-00883	32-00967
31-00063	31-00150	31-00359	31-00419
30-00787	30-00789	30-01436	30-01485
29-00489	29-00458	29-01196	29-01441
28-00432	28-00671	28-01400	28-02085
27-00335	27-00435	27-00520	27-00538
26-00495	26-00469	26-00444	26-01462
25-00387	25-00511	25-00627	25-00771
24-00415	24-00844	24-01096	24-02069
23-00563	23-00750	23-00943	23-01610
22-00559	22-00752	22-00964	22-00998
21-00494	21-00661	21-00869	21-02160
20-00608	20-00609	20-00809	20-00607
19-00008	19-00608	19-00808	19-00007
18-00019	18-00607	18-00807	18-00019
17-00019	17-00607	17-00807	17-00019
16-00019	16-00607	16-00807	16-00019
15-00009	15-00014	15-00029	15-00036
14-00008	14-00008	14-00031	14-00052
13-00031	13-00053	13-00080	13-00115
12-00033	12-00051	12-00074	12-00162
11-00014	11-00022	11-00034	11-00061
10-00007	10-00009	10-00015	10-00030
09-00017	09-00030	09-00044	09-00106
08-00028	08-00045	08-00068	08-00162
07-00010	07-00017	07-00030	07-00048
06-00010	06-00015	06-00018	06-00032
05-00013	05-00026	05-00044	05-00163
04-00007	04-00013	04-00044	04-00074
03-00022	03-00035	03-00049	03-00171
02-00013	02-00031	02-00042	02-00098
01-00005	01-00018	01-00032	01-00141
01134060	01134560	01135601	01139280
*1211780	*1211760	*1211780	*1211780
30K	40K	50K	80K

PANEL TT802023-103-2		12/12/78	PAGE 3 of 4
34-01558	34-00336	34-03011	34-03030
33-10895	33-07252	33-13782	33-17022
32-01019	32-00174	32-00957	32-00837
31-00174	31-01336	31-00275	31-00656
30-01608	30-01036	30-07306	30-02240
29-01735	29-00318	29-01949	29-01890
28-02583	28-00086	28-02940	28-03235
27-00389	27-00128	27-00079	27-00026
26-01711	26-00244	26-01979	26-01895
25-00630	25-00092	25-00225	25-00283
24-02581	24-02904	24-02924	24-02507
23-01903	23-00292	23-02117	23-02305
22-00779	22-00737	22-00726	22-00589
21-02317	21-01028	21-01764	21-01432
20-06616	20-00010	20-00019	20-00021
19-06007	19-00004	19-00007	19-00008
18-00011	18-00012	18-00011	18-00011
17-00010	17-00010	17-00009	17-00009
16-00012	16-00012	16-00012	16-00012
15-00058	15-00030	15-00071	15-00091
14-00159	14-00662	14-00225	14-00295
13-00394	13-00093	13-00527	13-00735
12-00357	12-00106	12-00478	12-00787
11-00124	11-00164	11-00267	11-00403
10-00174	10-00096	10-00101	10-00112
09-00269	09-00353	09-00419	09-00423
08-00391	08-00518	08-00689	08-00816
07-00234	07-00333	07-00518	07-00749
06-00041	06-00046	06-00049	06-00103
05-00289	05-00311	05-00319	05-00343
04-00132	04-00198	04-00208	04-00395
03-00278	03-00374	03-00388	03-00612
02-00164	02-00235	02-00244	02-00483
01-00226	01-00305	01-00312	01-00412
01-00550	01-03030	01-05320	01-07050
01211780	01211780	01211780	01211780
90K	95K	96.5K	Post Buckling @ 93.6K
	Perm. Set Check @ 0	FAILURE LOAD	

TER073

PAGE 4 of 4

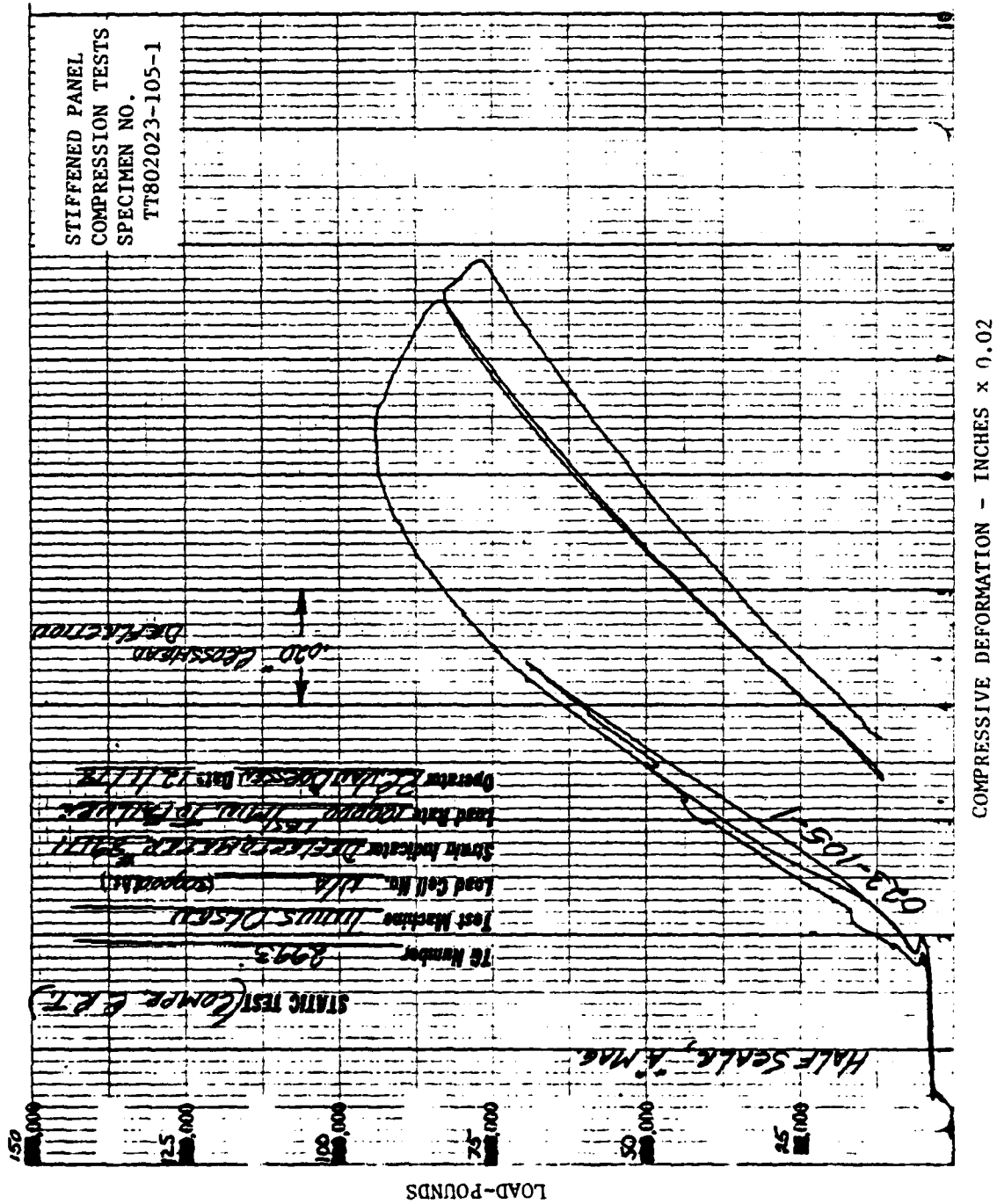
12/12/78

PANEL TT802023-103-2

34-00005  
33-10001  
32-00202  
31-01557  
30-00989  
29-00385  
28-00611  
27-00188  
26-00394  
25-00109  
24-00074  
23-00558  
22-00494  
21-01216  
20-00015  
19-00308  
18-00012  
17-00010  
16-00012  
15-00035  
14-00124  
13-00243  
12-00317  
11-00226  
10-00052  
09-00171  
08-00296  
07-00356  
06-00063  
05-00137  
04-00104  
03-00214  
02-00125  
01-00190  
01147550  
01211780

Post Buckling  
@ 0





SHEET 1 of 3

12/1/78

PANEL TT802023-105-1

34-00000	15-00001	34-00012	34-00201	34-00285
33-00001	14-00000	33-00140	33-00304	33-00500
32-00000	13-00000	32-00006	32-00309	32-00474
31-00001	12-00001	31-00001	31-00288	31-00465
30-00000	11-00000	30-00003	30-00414	30-00607
29-00001	10-00000	29-00008	29-00304	29-00466
28-00001	09-00001	28-00003	28-00382	28-00419
27-00001	08-00000	27-00003	27-00189	27-00287
26-00000	07-00000	26-00004	26-00383	26-00528
25-00001	06-00000	25-00001	25-00288	25-00424
24-00000	05-00001	24-00001	24-00481	24-00753
23-00000	04-00001	23-00011	23-00341	23-00518
22-00001	03-00001	22-00007	22-00202	22-00416
21-00000	02-00001	21-00007	21-00375	21-00571
0111360	01-00001	20-00007	20-00406	20-00646
*1201780	0118430	19-00007	19-00406	19-00781
Strain Gage	*1201780	18-00007	18-00406	18-00905
Zero Ref.	DEFL. IND.	17-00007	17-00406	17-00905
	ZERO REF.	16-00007	16-00406	16-00906
	@5K	15-00001	15-00001	15-00506
		14-00004	14-00008	14-00639
		13-00001	13-00010	13-00949
		12-00001	12-00004	12-00028
		11-00000	11-00000	11-00000
		10-00001	10-00001	10-00001
		09-00004	09-00006	09-00035
		08-00005	08-00009	08-00049
		07-00001	07-00005	07-00030
		06-00001	06-00005	06-00008
		05-00007	05-00002	05-00034
		04-00008	04-00004	04-00016
		03-00014	03-00006	03-00035
		02-00004	02-00000	02-00012
		01-00007	01-00003	01-00026
		0119460	01120260	01123060
		*1201780	*1201780	*1201780
Strain Gage	Test Start "0"	10K	20K	30K
R Cal	@ .5K			

SHEET 2 of 3

12/1/78

PANEL TT802023-105-1

34-00353	34-00389	34-00398	34-00272	34-00400
33-00691	33-00939	33-00969	33-00683	33-00964
32-00631	32-00866	32-00984	32-00075	32-00985
31-00672	31-01068	31-01201	31-00340	31-01196
30-00767	30-00877	30-01010	30-00114	30-01011
29-00624	29-00917	29-01046	29-00015	29-01048
28-00880	28-01148	28-01792	28-00036	28-01798
27-00370	27-00419	27-00329	27-00056	27-00325
26-00724	26-00914	26-01367	26-00084	26-01376
25-00549	25-00651	25-00716	25-00033	25-00716
24-01048	24-01367	24-01716	24-00028	24-02139
23-00698	23-00881	23-01068	23-00079	23-01284
22-00261	22-00667	22-00657	22-00025	22-00552
21-00744	21-01025	21-01387	21-00326	21-01746
20-00047	20-00044	20-00043	20-00042	20-00045
19-00009	19-00004	19-00006	19-00000	19-00000
18-00005	18-00006	18-00005	18-00006	18-00006
17-00002	17-00003	17-00002	17-00003	17-00003
16-00006	16-00006	16-00006	16-00006	16-00006
15-00010	15-00015	15-00024	15-00006	15-00026
14-00061	14-00097	14-00135	14-00009	14-00167
13-00080	13-00121	13-00250	13-00014	13-00250
12-00048	12-00073	12-00108	12-00010	12-00153
11-00000	11-00003	11-00003	11-00001	11-00007
10-00006	10-00010	10-00015	10-00001	10-00021
09-00054	09-00083	09-00120	09-00010	09-00173
08-00076	08-00113	08-00166	08-00009	08-00238
07-00049	07-00049	07-00100	07-00008	07-00143
06-00014	06-00016	06-00023	06-00005	06-00027
05-00056	05-00089	05-00131	05-00020	05-00190
04-00022	04-00036	04-00054	04-00004	04-00080
03-00053	03-00081	03-00121	03-00000	03-00174
02-00017	02-00028	02-00043	02-00004	02-00067
01-00044	01-00067	01-00095	01-00015	01-00141
01123480	01124470	01125580	01128030	01129210
*1201780	*1201780	*1201780	*1201780	*1201780

70K

Perm. Set Check  
@ 0

70K

60K

50K

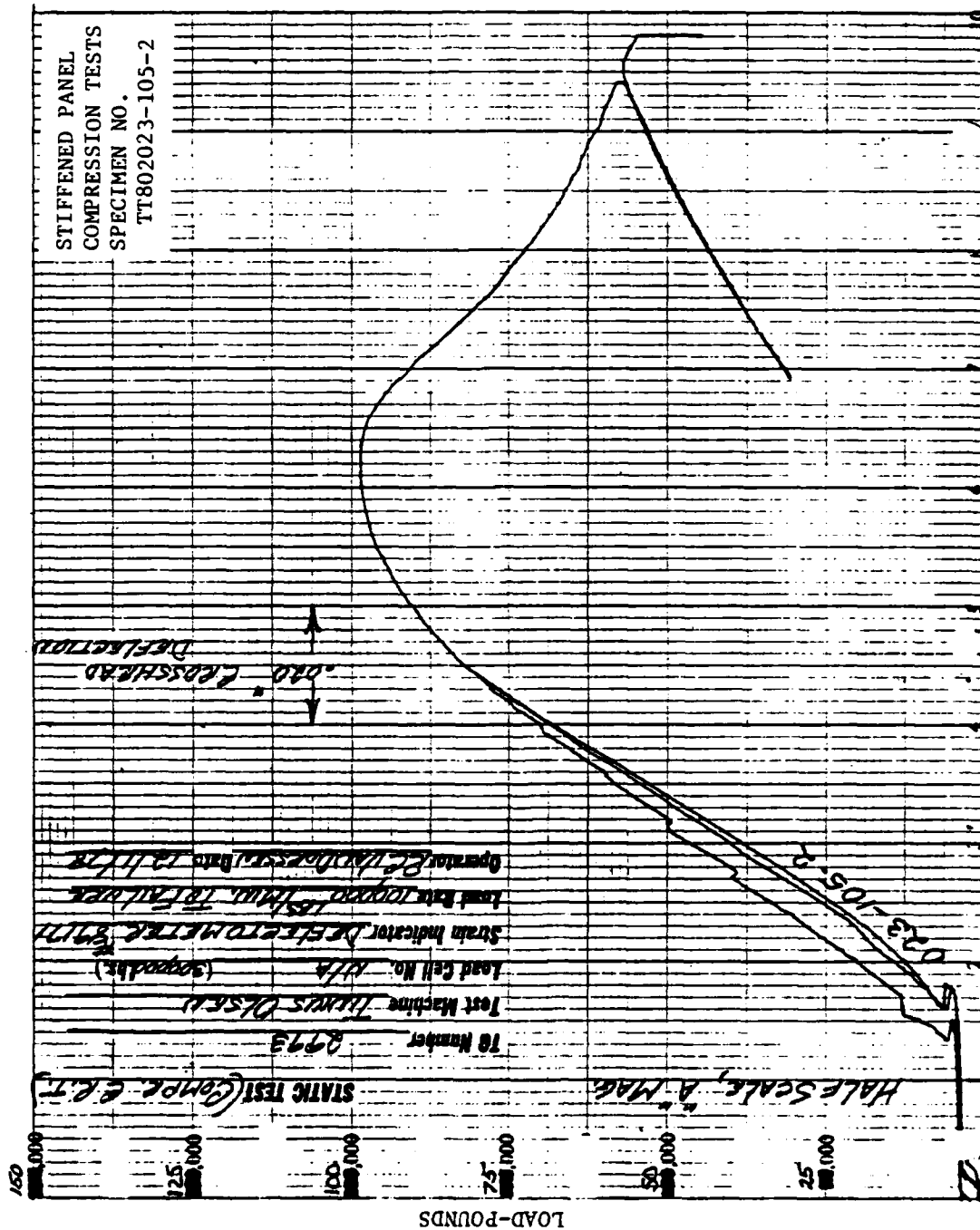
40K

SHEET 3 of 3

12/1/78

PANEL TT802023-105-1

34-00402	34-00423	34-00464	34-00528	34-00300	34-00697
33-00966	33-00909	33-00804	33-00653	33-00491	33-00196
32-01036	32-01080	32-01106	32-01127	32-00583	32-00244
31-01225	31-01199	31-01109	31-00911	31-00595	31-00134
30-01040	30-01050	30-01108	30-01306	30-01670	30-01751
29-01115	29-01193	29-01268	29-01334	29-01448	29-01191
28-02008	28-02258	28-01258	28-02876	28-04423	28-05770
27-00233	27-00075	27-00154	27-00553	27-02031	27-02391
26-01506	26-01673	26-01872	26-02155	26-02934	26-02674
25-00682	25-00597	25-00455	25-00203	25-02613	25-04460
24-02389	24-02688	24-03026	24-03496	24-07316	24-08533
23-01387	23-01517	23-01663	23-01650	23-02605	23-02525
22-00534	22-00530	22-00519	22-00515	22-00271	22-00010
21-01826	21-01880	21-01856	21-01717	21-00614	21-00111
20-00043	20-00046	20-00042	20-00044	20-00044	20-00043
19-00091	19-00000	19-00001	19-00000	19-00002	19-00001
18-00005	18-00005	18-00006	18-00005	18-00002	18-00001
17-00003	17-00002	17-00002	17-00002	17-00002	17-00001
16-00008	16-00006	16-00007	16-00007	16-00007	16-00006
15-00032	15-00037	15-00046	15-00055	15-00094	15-00094
14-00218	14-00260	14-00313	14-00303	14-00247	14-00286
13-00293	13-00351	13-00427	13-00528	13-00528	13-00140
12-00120	12-00211	12-00251	12-00311	12-00516	12-00537
11-00008	11-00007	11-00012	11-00014	11-00020	11-00025
10-00028	10-00035	10-00041	10-00059	10-00091	10-00066
09-00204	09-00248	09-00301	09-00360	09-00264	09-00556
08-00283	08-00341	08-00412	08-00512	08-00995	08-00166
07-00167	07-00199	07-00236	07-00291	07-00379	07-00240
06-00027	06-00033	06-00041	06-00045	06-00045	06-00018
05-00231	05-00277	05-00338	05-00426	05-00539	05-00538
04-00096	04-00122	04-00156	04-00204	04-00483	04-00759
03-00205	03-00246	03-00299	03-00366	03-00629	03-00770
02-00083	02-00105	02-00131	02-00179	02-00494	02-00789
01-00169	01-00206	01-00252	01-00315	01-00506	01-00436
01129550	01130180	01130420	01131140	01131420	01133140
01201780	01201780	01201780	01201780	01201780	01201780
75K	80K	85K	90K	94.5K	Post Buckling @ 83.5K



COMPRESSIVE DEFORMATION - INCHES x 0.02

SHEET 1 of 4

12/1/78

PANEL TT802023-105-2

34+00001	34+00011	34+00152	34+00313	34+00458
33+00001	33+00007	33+00130	33+00296	33+00478
32+00001	32+00007	32+00135	32+00308	32+00472
31+00000	31+00003	31+00107	31+00255	31+00408
30+00000	30+00014	30+00152	30+00344	30+00500
29+00000	29+00003	29+00152	29+00330	29+00472
28+00000	28+00007	28+00171	28+00385	28+00603
27+00001	27+00005	27+00124	27+00263	27+00391
26+00002	26+00001	26+00137	26+00310	26+00485
25+00000	25+00005	25+00095	25+00215	25+00318
24+00000	24+00005	24+00197	24+00463	24+00725
23+00001	23+00005	23+00180	23+00384	23+00569
22+00001	22+00002	22+00127	22+00265	22+00385
21+00001	21+00004	21+00184	21+00408	21+00630
01524040	20+00039	20+00039	20+00444	20+00639
01201780	19+00001	19+00000	19+00401	19+00606
Strain Gage	17+00002	17+00002	17+00402	17+00603
Zero Ref.	16+00006	16+00006	16+00405	16+00606
	15+00000	15+00000	15+00000	15+00001
34+01416	14+00003	14+00000	14+00011	14+00027
33+01415	13+00001	13+00008	13+00021	13+00039
32+01417	12+00001	12+00002	12+00009	12+00018
31+01413	11+00001	11+00000	11+00001	11+00001
30+01414	10+00000	10+00000	10+00002	10+00007
29+01413	09+00002	09+00005	09+00020	09+00036
28+01414	08+00004	08+00004	08+00022	08+00045
27+01415	07+00000	07+00004	07+00013	07+00026
26+01417	06+00000	06+00001	06+00002	06+00004
25+01416	05+00009	05+00005	05+00010	05+00023
24+01414	04+00009	04+00003	04+00008	04+00012
23+01415	03+00008	03+00005	03+00018	03+00032
22+01414	02+00010	02+00000	02+00004	02+00006
21+01417	01+00008	01+00004	01+00010	01+00031
01524090	01530310	01530590	01531260	01532270
01201780	01201780	01201780	01201780	01201780
Strain Gage,	Test Start 0	10K	20K	30K
R Cal	@ .5K			

PANEL TT802023-105-2

40K	50K	60K	70K	80K
34-00592	34-00708	34-00791	34-00924	34-01052
33-00666	33-00626	33-00692	33-00914	33-00929
32-00628	32-00781	32-00929	32-01067	32-01135
31-00570	31-00723	31-00630	31-00680	31-00681
30-00617	30-00701	30-00744	30-00761	30-00765
29-00650	29-00607	29-00957	29-01108	29-01177
28-00627	28-01077	28-01343	28-01654	28-01826
27-00506	27-00614	27-00693	27-00736	27-00740
26-00645	26-00845	26-01035	26-01250	26-01360
25-00609	25-00649	25-00491	25-00448	25-00390
24-00691	24-01286	24-01600	24-01962	24-02162
23-00786	23-00435	23-01135	23-01371	23-01496
22-00698	22-00597	22-00603	22-00511	22-00459
21-00634	21-01131	21-01514	21-01503	21-02041
20-00602	20-00602	20-00602	20-00604	20-00604
19-00604	19-00604	19-00604	19-00604	19-00604
18-00604	18-00604	18-00604	18-00604	18-00604
17-00604	17-00604	17-00604	17-00604	17-00604
16-00604	16-00604	16-00604	16-00604	16-00604
15-00604	15-00604	15-00604	15-00604	15-00604
14-00604	14-00604	14-00604	14-00604	14-00604
13-00604	13-00604	13-00604	13-00604	13-00604
12-00604	12-00604	12-00604	12-00604	12-00604
11-00604	11-00604	11-00604	11-00604	11-00604
10-00604	10-00604	10-00604	10-00604	10-00604
9-00604	9-00604	9-00604	9-00604	9-00604
8-00604	8-00604	8-00604	8-00604	8-00604
7-00604	7-00604	7-00604	7-00604	7-00604
6-00604	6-00604	6-00604	6-00604	6-00604
5-00604	5-00604	5-00604	5-00604	5-00604
4-00604	4-00604	4-00604	4-00604	4-00604
3-00604	3-00604	3-00604	3-00604	3-00604
2-00604	2-00604	2-00604	2-00604	2-00604
1-00604	1-00604	1-00604	1-00604	1-00604
0-00604	0-00604	0-00604	0-00604	0-00604

SHEET 3 of 4

12/1/78

PANEL TT802023-105-2

34-00614  
33-01070  
32-00068  
31-00041  
30-00041  
29-00007  
28-00037  
27-00045  
26-00050  
25-00066  
24-00042  
23-00152  
22-00134  
21-00531  
20-00042  
19-00001  
18-00065  
17-00002  
16-00067  
15-00001  
14-00023  
13-00026  
12-00014  
11-00005  
10-00012  
09-00030  
08-00025  
07-00015  
06-00000  
05-00027  
04-00000  
03-00014  
02-00000  
01-00031  
00-00000  
00-00000

34-01206  
33-00895  
32-01188  
31-00627  
30-00754  
29-01244  
28-01197  
27-00710  
26-01488  
25-00249  
24-02363  
23-01645  
22-00393  
21-02139  
20-00047  
19-00000  
18-00006  
17-00002  
16-00005  
15-00018  
14-00204  
13-00287  
12-00172  
11-00014  
10-00040  
09-00024  
08-00300  
07-00155  
06-00017  
05-00189  
04-00083  
03-00207  
02-00088  
01-00214  
00-00340  
00-00180

Perm. Set Check  
@ 0

34-01399  
33-00403  
32-01247  
31-00781  
30-00750  
29-01298  
28-02209  
27-00644  
26-01617  
25-00132  
24-02613  
23-01797  
22-00401  
21-02114  
20-00047  
19-00001  
18-00006  
17-00002  
16-00005  
15-00022  
14-00239  
13-00335  
12-00199  
11-00016  
10-00048  
09-00281  
08-00349  
07-00178  
06-00017  
05-00227  
04-00101  
03-00242  
02-00104  
01-00256  
00-00350  
00-00180

34-01647  
33-00616  
32-01313  
31-00650  
30-00734  
29-01364  
28-02479  
27-00489  
26-01794  
25-00157  
24-02521  
23-02017  
22-00408  
21-02003  
20-00049  
19-00001  
18-00006  
17-00002  
16-00006  
15-00031  
14-00297  
13-00407  
12-00227  
11-00018  
10-00060  
09-00344  
08-00420  
07-00196  
06-00017  
05-00276  
04-00127  
03-00287  
02-00131  
01-00315  
00-00310  
00-00180

34-02020  
33-00080  
32-01392  
31-00461  
30-00081  
29-01441  
28-02634  
27-00194  
26-02062  
25-00076  
24-03352  
23-02356  
22-00422  
21-01721  
20-00064  
19-00002  
18-00002  
17-00002  
16-00004  
15-00144  
14-00379  
13-00090  
12-00261  
11-00017  
10-00079  
09-00431  
08-00314  
07-00214  
06-00017  
05-00343  
04-00162  
03-00353  
02-00175  
01-00403  
00-00340  
00-00180

34-02262  
33-00594  
32-01266  
31-00335  
30-00070  
29-01432  
28-04130  
27-01422  
26-02907  
25-03513  
24-06649  
23-03495  
22-00257  
21-00280  
20-00056  
19-00002  
18-00002  
17-00002  
16-00005  
15-00085  
14-00052  
13-00056  
12-00333  
11-00009  
10-00118  
09-00090  
08-00092  
07-00244  
06-00004  
05-00495  
04-00380  
03-00578  
02-00413  
01-00481  
00-00340  
00-00180

99K

95K

90K

85K

80K

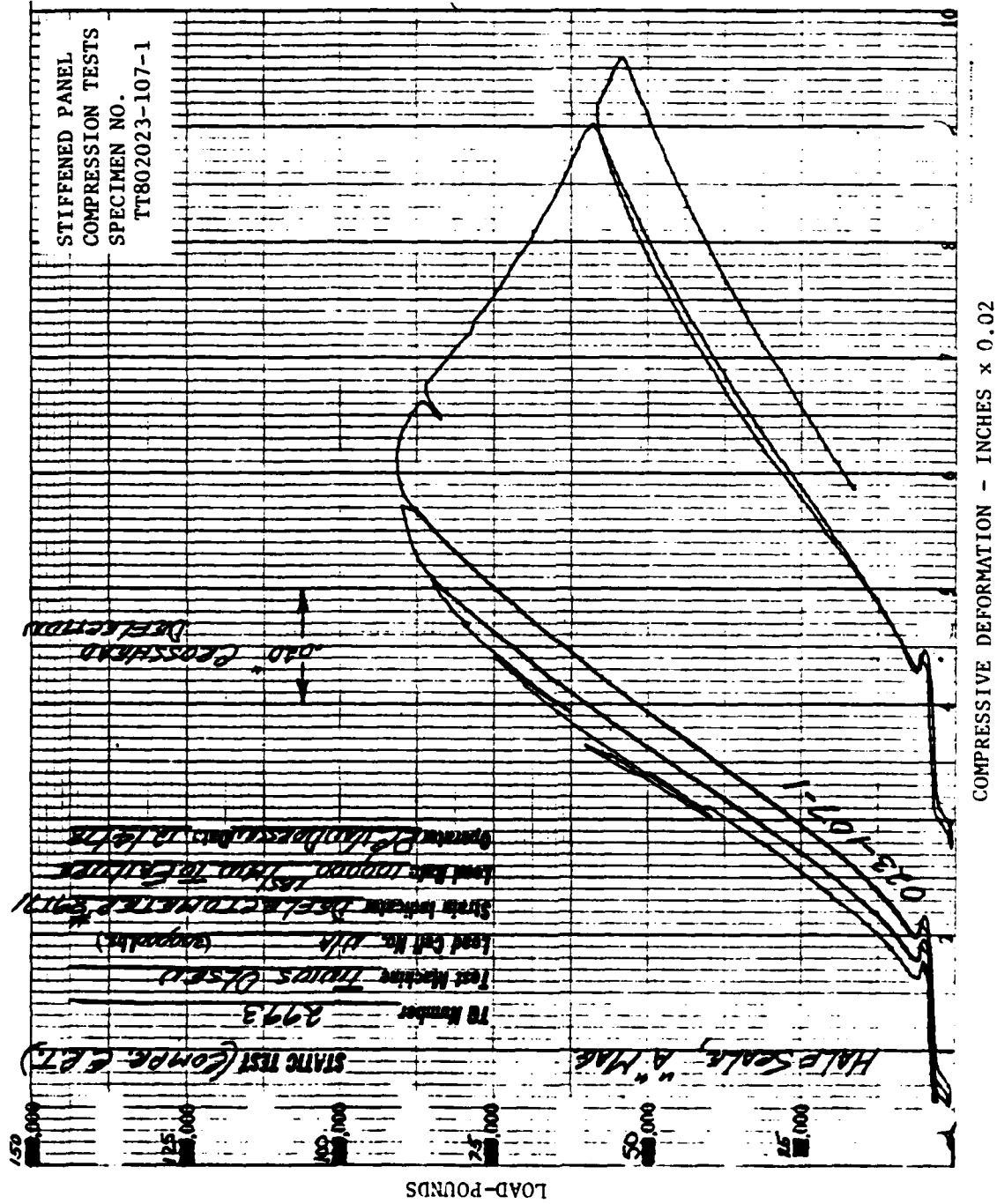


TER073

PANEL TT802023-105-2 12/1/78 SHEET 4 of 4

34-03431  
33-00647  
32-00400  
31-00720  
30-01092  
29-00723  
28-01106  
27-02492  
26-00931  
25-00679  
24-07177  
23-01921  
22-00209  
21-01978  
20-00031  
19-00061  
18-00007  
17-00004  
16-00004  
15-00085  
14-00575  
13-01480  
12-00113  
11-00012  
10-00121  
09-00026  
08-00012  
07-00047  
06-00023  
05-00215  
04-01468  
03-01289  
02-01503  
01-00169  
01541100  
01201780

Post Buckling  
@ 57.5K



SHEET 1 of 4	
12/4/78	
PANEL TT802023-107-1	
34-00002	34-00117
33-00002	33-00164
32-00001	32-00130
31-00002	31-00200
30-00002	30-00141
29-00001	29-00151
28-00000	28-00212
27-00001	27-00068
26-00001	26-00143
25-00001	25-00050
24-00001	24-00263
23-00001	23-00174
22-00001	22-00173
21-00002	21-00137
20-00001	20-00039
19-00001	19-00004
18-00001	18-00004
17-00001	17-00002
16-00001	16-00006
15-00000	15-00001
14-00000	14-00010
13-00004	13-00012
12-00004	12-00005
11-00000	11-00000
10-00002	10-00001
09-00005	09-00005
08-00007	08-00011
07-00005	07-00005
06-00000	06-00000
05-00005	05-00005
04-00009	04-00002
03-00012	03-00009
02-00012	02-00003
01-00004	01-00005
01300020	01301240
01204780	01204780
Strain Gage	Test Start 0
R Cal	10K
	@ .5K
Zero Ref.	
34-01413	34-00237
33-01412	33-00351
32-01414	32-00297
31-01414	31-00432
30-01415	30-00273
29-01415	29-00330
28-01412	28-00479
27-01412	27-00140
26-01413	26-00306
25-00001	25-00092
24-00001	24-00576
23-00001	23-00358
22-00001	22-00360
21-00002	21-00286
20-00001	20-00046
19-00001	19-00001
18-00001	18-00005
17-00001	17-00002
16-00001	16-00006
15-00000	15-00000
14-00000	14-00022
13-00004	13-00034
12-00004	12-00020
11-00000	11-00001
10-00002	10-00001
09-00005	09-00038
08-00007	08-00076
07-00005	07-00045
06-00000	06-00002
05-00005	05-00036
04-00009	04-00022
03-00012	03-00052
02-00012	02-00022
01-00004	01-00040
01300020	01303260
01204780	01204780
Strain Gage	30K
R Cal	20K
	30K

SHEET 2 of 4

12/4/78

PANEL TT802023-107-1

34-00483	34-00456	34-00730	34-00766	34-00808
33-00828	33-01438	33-01745	33-01891	33-02023
32-00612	32-00899	32-01019	32-01066	32-01111
31-00514	31-01401	31-01568	31-01661	31-01721
30-00455	30-00520	30-00525	30-00516	30-00494
29-00481	29-01041	29-01231	29-01326	29-01431
28-01123	28-01939	28-02430	28-02703	28-03003
27-00247	27-00215	27-00097	27-00003	27-00123
26-00651	26-01025	26-01240	26-01355	26-01485
25-00097	25-00039	25-00090	25-00001	25-00736
24-01247	24-01616	24-02035	24-02782	24-03073
23-00715	23-00892	23-01090	23-01322	23-01603
22-00722	22-00918	22-01034	22-01056	22-01025
21-00555	21-00775	21-01066	21-01436	21-01489
20-00041	20-00044	20-00047	20-00044	20-00051
19-00000	19-00004	19-00000	19-00004	19-00004
18-00002	18-00004	18-00004	18-00004	18-00004
17-00002	17-00002	17-00002	17-00002	17-00002
16-00005	16-00005	16-00005	16-00005	16-00005
15-00000	15-00005	15-00007	15-00008	15-00013
14-00056	14-00080	14-00116	14-00186	14-00219
13-00100	13-00149	13-00211	13-00354	13-00415
12-00065	12-00096	12-00139	12-00234	12-00279
11-00011	11-00015	11-00024	11-00033	11-00049
10-00002	10-00003	10-00006	10-00008	10-00014
09-00058	09-00085	09-00114	09-00160	09-00223
08-00119	08-00169	08-00236	08-00329	08-00454
07-00072	07-00107	07-00149	07-00207	07-00292
06-00005	06-00009	06-00014	06-00015	06-00023
05-00058	05-00088	05-00129	05-00178	05-00244
04-00034	04-00051	04-00069	04-00109	04-00167
03-00077	03-00113	03-00157	03-00222	03-00305
02-00040	02-00054	02-00080	02-00120	02-00183
01-00064	01-00100	01-00146	01-00205	01-00296
01304260	01306190	01307400	01308560	01311580
01204780	01204780	01204780	01204780	01204780

40K

50K

60K

70K

75K

80K

SHEET 3 of 4

12/4/78

PANEL TT802023-107-1

34-00444	34-00411	34-00840	34-01008	34-00841	34-00997
33-02146	33-00429	33-02124	33-02165	33-00819	33-02254
32-01156	32-00087	32-01157	32-01166	32-00105	32-01204
31-01400	31-00747	31-01783	31-01874	31-00945	31-01934
30-00433	30-00275	30-00426	30-00267	30-00374	30-00221
29-01564	29-00112	29-01563	29-01726	29-00186	29-01760
28-03405	28-00012	28-03403	28-04196	28-00246	28-04418
27-00329	27-00092	27-00332	27-00799	27-00126	27-00927
26-01454	26-00147	26-01658	26-01504	26-00253	26-01951
25-01118	25-00225	25-01136	25-02005	25-00425	25-02182
24-03460	24-00063	24-03461	24-04368	24-00554	24-04552
23-01817	23-00246	23-01829	23-02230	23-00483	23-02306
22-00944	22-00143	22-00414	22-00738	22-00233	22-00700
21-01439	21-00428	21-01501	21-01254	21-00976	21-01201
20-00455	20-00044	20-00454	20-00687	20-00686	20-00466
19-00402	19-00001	19-00402	19-00601	19-00601	19-00402
18-00004	18-00004	18-00003	18-00604	18-00604	18-00603
17-00001	17-00002	17-00001	17-00604	17-00604	17-00601
16-00004	16-00006	16-00004	16-00604	16-00604	16-00603
15-00017	15-00001	15-00016	15-00027	15-00004	15-00026
14-00272	14-00035	14-00275	14-00368	14-00071	14-00382
13-00508	13-00045	13-00513	13-00691	13-00109	13-00722
12-00345	12-00042	12-00350	12-00474	12-00096	12-00496
11-00064	11-00015	11-00064	11-00094	11-00032	11-00096
10-00017	10-00002	10-00018	10-00024	10-00004	10-00024
09-00269	09-00030	09-00273	09-00356	09-00071	09-00366
08-00558	08-00047	08-00562	08-00756	08-00046	08-00767
07-00360	07-00056	07-00365	07-00484	07-00008	07-00502
06-00032	06-00006	06-00032	06-00040	06-00014	06-00041
05-00302	05-00045	05-00302	05-00355	05-00094	05-00408
04-00216	04-00007	04-00220	04-00332	04-00030	04-00354
03-00372	03-00033	03-00376	03-00497	03-00081	03-00516
02-00237	02-00007	02-00240	02-00362	02-00036	02-00389
01-00365	01-00073	01-00373	01-00498	01-00150	01-00498
01313100	01314500	01316080	01316290	01318010	01319170
01204780	01204780	01204780	01204780	01204780	01204780

Perm. Set Check  
@ 0

90K

85K

Perm. Set Check  
@ 0

85K

SHEET 4 of 4

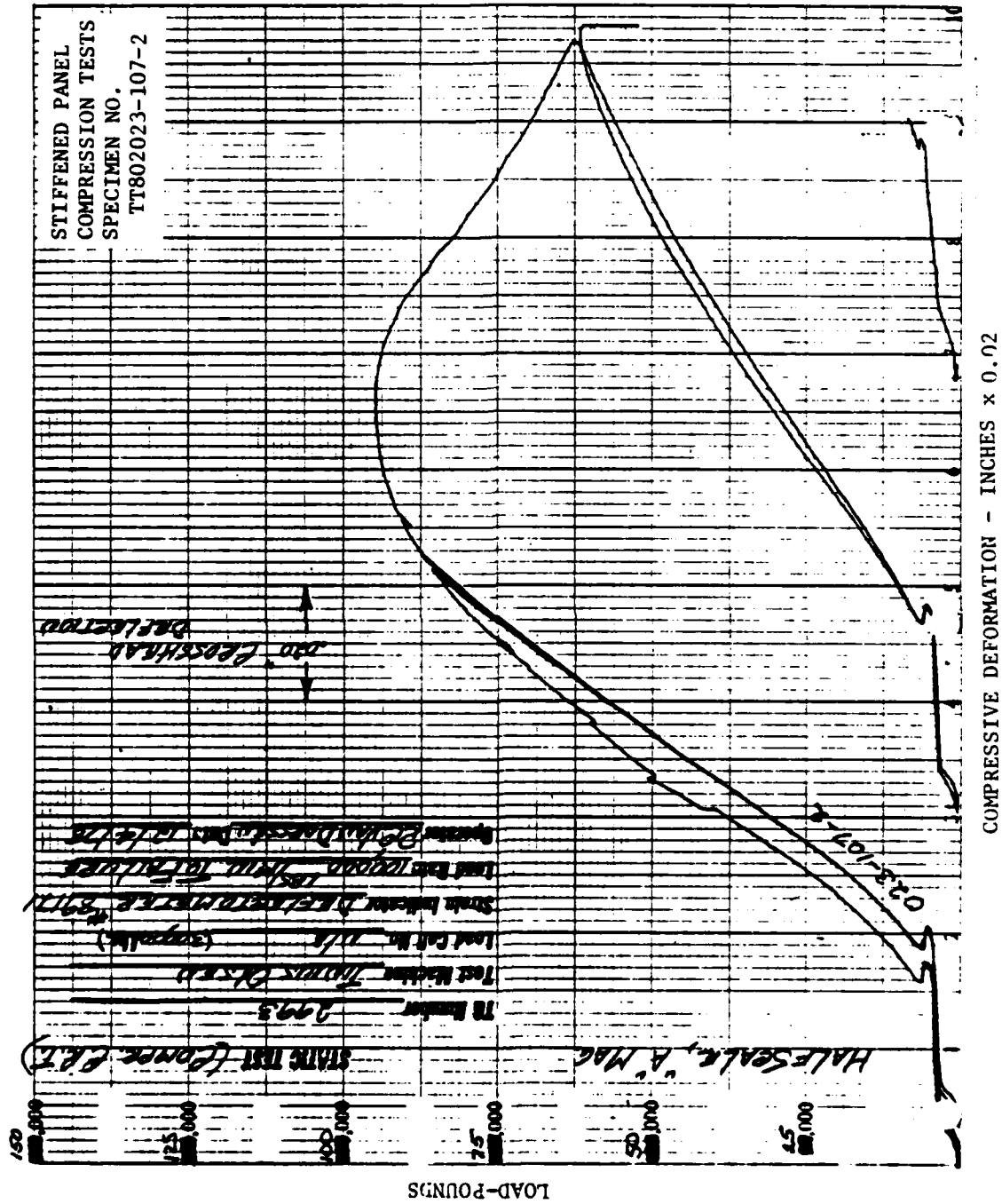
12/4/78

PANEL TT802023-107-1

34-01329	34-01102	34-02997
33-02208	33-00997	33-00276
32-01186	32-00083	32-00768
31-01964	31-01017	31-00216
30-00199	30-00244	30-01793
29-01760	29-00214	29-01053
28-06662	28-00538	28-00000
27-02346	27-01777	27-01785
26-02176	26-01230	26-01877
25-03474	25-01769	25-05058
24-06376	24-15546	24-23589
23-02549	23-00911	23-01165
22-00533	22-00290	22-00506
21-00724	21-00045	21-01132
<del>20-06097</del>	<del>20-00052</del>	<del>20-00044</del>
<del>19-06002</del>	<del>19-06000</del>	<del>19-00001</del>
<del>18-06004</del>	<del>18-06004</del>	<del>18-00005</del>
<del>17-00002</del>	<del>17-06062</del>	<del>17-00002</del>
<del>16-00004</del>	<del>16-00004</del>	<del>16-00005</del>
15-00027	15-00004	15-00003
14-00425	14-00080	14-00100
13-00909	13-00709	13-00709
12-00580	12-00300	12-00550
11-00112	11-00063	11-00112
10-00025	10-00006	10-00006
09-00398	09-00076	09-00142
08-00458	08-00672	08-00671
07-00576	07-00329	07-00590
06-00040	06-00023	06-00033
05-00465	05-00159	05-00044
04-00487	04-00602	04-01416
03-00614	03-00498	03-01107
02-00522	02-00589	02-01420
01-00497	01-00237	01-00141
01319330	01321210	01322090
01208780	01208780	01208780

Post Buckling      Post Buckling Load  
 Perm. Set Check @ 58.5K  
 @ 0  
 (Channels 8 & 13 disconnected)  
 (Channels 8 & 13 disconnected)

9.1K



SHEET 1 of 4

12/4/78

PANEL TT802023-107-2

34-00001  
33-00002  
32-00001  
31-00001  
30-00000  
29-00001  
28-00001  
27-00000  
26-00000  
25-00001  
24-00001  
23-00000  
22-00001  
21-00000  
01551500  
01204780  
Strain Gage  
Zero Ref  
34-01415  
33-01414  
32-01416  
31-01416  
30-01415  
29-01417  
28-01414  
27-01414  
26-01419  
25-01415  
24-01413  
23-01412  
22-01412  
21-01412  
01551580  
01204780  
Strain Gage  
R Cal

15-00000  
14-00001  
13-00000  
12-00001  
11-00000  
10-00000  
09-00000  
08-00001  
07-00005  
06-00001  
05-00002  
04-00013  
03-00013  
02-00011  
01-00005  
01550690  
01204780  
Test Start 0  
0.5K

34-00012  
33-00011  
32-00006  
31-00010  
30-00014  
29-00012  
28-00008  
27-00003  
26-00011  
25-00002  
24-00002  
23-00011  
22-00012  
21-00006  
20-00006  
19-00006  
18-00005  
17-00003  
16-00006  
15-00001  
14-00000  
13-00003  
12-00000  
11-00000  
10-00000  
09-00004  
08-00003  
07-00005  
06-00001  
05-00002  
04-00001  
03-00005  
02-00000  
01-00005  
01609460  
01204780

34-00210  
33-00171  
32-00127  
31-00172  
30-00124  
29-00149  
28-00224  
27-00070  
26-00154  
25-00097  
24-00201  
23-00166  
22-00190  
21-00118  
20-00047  
19-00004  
18-00005  
17-00002  
16-00005  
15-00005  
14-00005  
13-00010  
12-00004  
11-00001  
10-00002  
09-00004  
08-00009  
07-00004  
06-00003  
05-00002  
04-00001  
03-00005  
02-00000  
01-00005  
01609460  
01204780

34-00412  
33-00364  
32-00293  
31-00378  
30-00265  
29-00337  
28-00500  
27-00143  
26-00332  
25-00209  
24-00452  
23-00340  
22-00406  
21-00393  
20-00047  
19-00004  
18-00005  
17-00002  
16-00005  
15-00004  
14-00019  
13-00027  
12-00016  
11-00002  
10-00003  
09-00015  
08-00032  
07-00018  
06-00004  
05-00012  
04-00010  
03-00023  
02-00006  
01-00014  
01610400  
01204780

34-00590  
33-00559  
32-00455  
31-00593  
30-00356  
29-00507  
28-00769  
27-00200  
26-00509  
25-00306  
24-00707  
23-00520  
22-00608  
21-00393  
20-00047  
19-00004  
18-00005  
17-00002  
16-00005  
15-00004  
14-00033  
13-00054  
12-00027  
11-00002  
10-00002  
09-00026  
08-00055  
07-00035  
06-00009  
05-00026  
04-00016  
03-00041  
02-00013  
01-00026  
01610400  
01204780

30K

20K

10K



**PANEL TT802023-107-2**

[illegible]

SHEET 3 of 4

PANEL TT802023-107-2

12/4/78

34-01650	34-01757	34-01086	34-01796	34-02343	34-05755
33-01323	33-01306	33-01033	33-01287	33-01115	33-00351
32-01198	32-01226	32-00053	32-01220	32-01255	32-01134
31-01623	31-01684	31-00780	31-01890	31-01972	31-03775
30-00987	30-01006	30-00813	30-01014	30-01140	30-01344
29-01428	29-01462	29-00014	29-01466	29-01513	29-01615
28-03054	28-03146	28-00008	28-03157	28-03374	28-04527
27-00242	27-00307	27-00013	27-00317	27-00470	27-01668
26-01742	26-01801	26-00196	26-01811	26-01940	26-02605
25-00243	25-00193	25-00099	25-00184	25-00065	25-00999
24-02620	24-02912	24-00010	24-02924	24-03147	24-04273
23-01679	23-01729	23-00166	23-01738	23-01849	23-02393
22-01615	22-00956	22-00123	22-00941	22-00872	22-00250
21-01932	21-01961	21-00902	21-01965	21-01942	21-01443
20-00055	20-00049	20-00049	20-00057	20-00058	20-00061
19-00000	19-00000	19-00000	19-00000	19-00000	19-00000
18-00004	18-00004	18-00004	18-00004	18-00004	18-00004
17-00002	17-00002	17-00002	17-00002	17-00002	17-00002
16-00005	16-00005	16-00005	16-00005	16-00005	16-00005
15-00036	15-00039	15-00001	15-00038	15-00038	15-00141
14-00294	14-00316	14-00045	14-00323	14-00374	14-00073
13-00437	13-00470	13-00045	13-00474	13-00541	13-00098
12-00250	12-00270	12-00034	12-00272	12-00313	12-00508
11-00023	11-00022	11-00004	11-00023	11-00031	11-00051
10-00016	10-00015	10-00002	10-00015	10-00020	10-00064
09-00259	09-00293	09-00037	09-00285	09-00334	09-00626
08-00426	08-00457	08-00041	08-00493	08-00529	08-00095
07-00260	07-00301	07-00031	07-00306	07-00346	07-00549
06-00035	06-00035	06-00006	06-00034	06-00044	06-00052
05-00267	05-00308	05-00049	05-00313	05-00357	05-00559
04-00156	04-00174	04-00005	04-00174	04-00206	04-00427
03-00305	03-00327	03-00028	03-00332	03-00374	03-00600
02-00121	02-00164	02-00000	02-00168	02-00199	02-00417
01-00255	01-00274	01-00042	01-00277	01-00313	01-00450
01615360	01617200	01618210	01619310	01619520	01620430
01204780	01204780	01204760	01204780	01204780	01204760
85K	87K	Perm. Set Check @ 0	87K	90K	94.75K

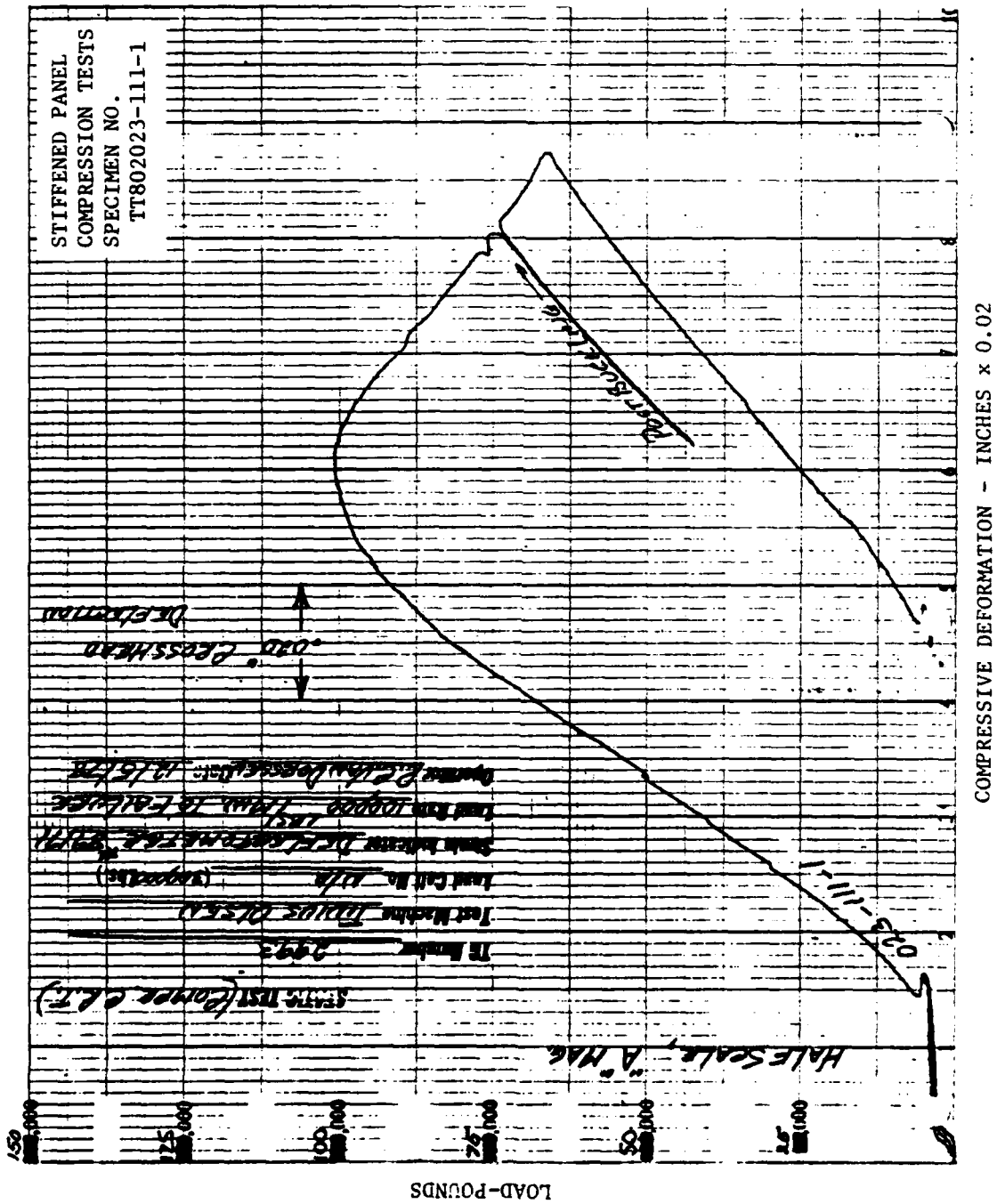
SHEET 4 of 4

12/4/78

PANEL TT802023-107-2

34-05691  
 33-01797  
 32-00110  
 31-00445  
 30-02340  
 29-00067  
 28-03428  
 27-02058  
 26-01141  
 25-01924  
 24-03401  
 23-00831  
 22-00311  
 21-00750  
 20-00658  
 19-00601  
 18-00609  
 17-00601  
 16-00604  
 15-00101  
 14-00119  
 13-00122  
 12-00205  
 11-00027  
 10-00042  
 09-00383  
 08-00954  
 07-00317  
 06-00001  
 05-00306  
 04-00592  
 03-00520  
 02-00571  
 01-00202  
 01621580  
 01204780

Post Buckling @ 0  
 (Channel 13 dis-  
 connected)



SHEET 1 of 3

12/5/78

PANEL TT802023-111-1

34-00001	34-00055	34-00057	34-00005	34-00134
33-00000	33-00018	33-00018	33-00005	33-00049
32-00003	32-00066	32-00069	32-00018	32-00159
31-00003	31-00015	31-00053	31-00004	31-00145
30-00002	30-00015	30-00067	30-00004	30-00194
29-00004	29-00017	29-00054	29-00005	29-00141
28-00001	28-00013	28-00032	28-00002	28-00081
27-00002	27-00015	27-00062	27-00003	27-00154
26-00001	26-00013	26-00074	26-00018	26-00168
25-00001	25-00016	25-00066	25-00001	25-00190
24-00002	24-00014	24-00034	24-00000	24-00096
23-00000	23-00015	23-00064	23-00002	23-00174
22-00000	22-00016	22-00049	22-00007	22-00118
21-00001	21-00015	21-00079	21-00010	21-00194
20-00001	20-00059	20-00051	20-00037	20-00370
19-00001	19-00000	19-00001	19-00003	19-00003
18-00001	18-00003	18-00001	18-00003	18-00003
17-00003	17-00003	17-00002	17-00003	17-00004
16-00005	16-00004	16-00005	16-00003	16-00004
15-00012	15-00012	15-00012	15-00001	15-00000
14-00017	14-00017	14-00022	14-00001	14-00004
13-00139	13-00140	13-00140	13-00000	13-00000
12-00086	12-00086	12-00076	12-00000	12-00000
11-00076	11-00076	11-00073	11-00001	11-00002
10-00529	10-00529	10-00522	10-00000	10-00000
09-00250	09-00249	09-00241	09-00002	09-00000
08-00142	08-00141	08-00132	08-00001	08-00000
07-00351	07-00352	07-00325	07-00002	07-00002
06-00391	06-00390	06-00364	06-00001	06-00001
05-00368	05-00368	05-00356	05-00001	05-00001
04-00340	04-00341	04-00340	04-00001	04-00000
03-00076	03-00077	03-00322	03-00000	03-00000
02-00197	02-00197	02-00451	02-00002	02-00002
01-00270	01-00270	01-00532	01-00009	01-00001
01541450	01541450	01541450	015534701	01553430
01204780	01204780	01204780	012047801	01204780

Test Start  
0

DEFL. IND.  
ZERO REF.  
@ 5K

5K

Strain Gage  
R Cal

Strain Gage  
Zero Ref.

**PANEL TT802023-111-1**

34K	40K	50K	60K
34-000702	34-00085	34-001035	34-001160
33-00303	33-00387	33-00440	33-00490
32-00673	32-00633	32-00633	32-00684
31-00607	31-00747	31-00876	31-00971
30-00724	30-00853	30-00901	30-00906
29-00628	29-00783	29-00928	29-01070
28-00338	28-00382	28-00384	28-00329
27-00768	27-01006	27-01263	27-01557
26-00735	26-00947	26-01172	26-01420
25-00874	25-01128	25-01365	25-01611
24-00328	24-00353	24-00349	24-00298
23-00825	23-01071	23-01332	23-01613
22-00442	22-00539	22-00616	22-00617
21-00922	21-01144	21-01328	21-01546
20-00034	20-00034	20-00024	20-00024
19-00604	19-00604	19-00604	19-00604
18-00004	18-00004	18-00004	18-00004
17-60004	17-60004	17-60004	17-60004
16-00004	16-00004	16-00004	16-00004
15-00009	15-00013	15-00018	15-00027
14-00025	14-00035	14-00053	14-00079
13-00000	13-00000	13-00000	13-00000
12-00012	12-00017	12-00021	12-00024
11-00008	11-00009	11-00011	11-00013
10-00004	10-00009	10-00011	10-00018
09-00023	09-00035	09-00052	09-00080
08-00001	08-00001	08-00001	08-00001
07-00020	07-00029	07-00041	07-00055
06-00002	06-00006	06-00006	06-00014
05-00000	05-00000	05-00000	05-00000
04-00001	04-00001	04-00000	04-00000
03-00005	03-00005	03-00004	03-00005
02-00003	02-00003	02-00002	02-00006
01-00019	01-00028	01-00033	01-00040
015553101	015555501	01557110	01558280
*12047801	*1204780	*1204780	*1204780

SHEET 3 of 3

12/5/78

PANEL TT802023-111-1

34-01254	34-01394	34-01518	34-01897	34-03250	34-01671
33-00505	33-00374	33-00154	33-00567	33-02551	33-04124
32-01277	32-01468	32-01066	32-01857	32-01444	32-01388
31-00988	31-00833	31-00581	31-00307	31-02689	31-04655
30-00930	30-01060	30-01392	30-02573	30-04637	30-03210
29-01208	29-01394	29-01511	29-01642	29-01165	29-01404
28-00187	28-00104	28-00330	28-00806	28-02082	28-05716
27-01460	27-02202	27-02397	27-02773	27-03995	27-07707
26-01689	26-02055	26-02278	26-02600	26-02761	26-02240
25-01431	25-02073	25-02200	25-02474	25-03311	25-05437
24-00186	24-00039	24-00200	24-00564	24-01539	24-04264
23-01916	23-02287	23-02480	23-02803	23-02310	23-02310
22-00494	22-00240	22-00057	22-00271	22-00482	22-00865
21-01508	21-02083	21-02206	21-02307	21-02046	21-00674
20-00029	20-00027	20-00028	20-00026	20-00024	20-00013
19-00004	19-00004	19-00004	19-00004	19-00004	19-00005
18-00009	18-00009	18-00009	18-00009	18-00009	18-00009
17-00007	17-00006	17-00007	17-00007	17-00007	17-00009
16-00009	16-00009	16-00009	16-00009	16-00009	16-00013
15-00034	15-00056	15-00073	15-00115	15-00214	15-00478
14-00119	14-00186	14-00236	14-00350	14-00560	14-01026
13-00000	13-00000	13-00000	13-00003	13-00009	13-00023
12-00039	12-00058	12-00070	12-00090	12-00094	12-00071
11-00020	11-00028	11-00031	11-00040	11-00042	11-00036
10-00029	10-00045	10-00060	10-00097	10-00186	10-00053
09-00114	09-00177	09-00060	09-00336	09-00541	09-01041
08-00001	08-00001	08-00001	08-00002	08-00006	08-00015
07-00073	07-00096	07-00114	07-00139	07-00148	07-00106
06-00018	06-00028	06-00032	06-00045	06-00049	06-00036
05-00000	05-00008	05-00012	05-00030	05-00071	05-00035
04-00000	04-00001	04-00004	04-00022	04-00079	04-00354
03-00005	03-00005	03-00004	03-00022	03-00060	03-00365
02-00005	02-00004	02-00004	02-00024	02-00074	02-00365
01-00046	01-00051	01-00067	01-00067	01-00104	01-00351
01559030	01559520	01600200	01600530	01601090	01602180
01204780	01204780	01204780	01204780	01204780	01204780

Post Buckling  
@ 74.25K

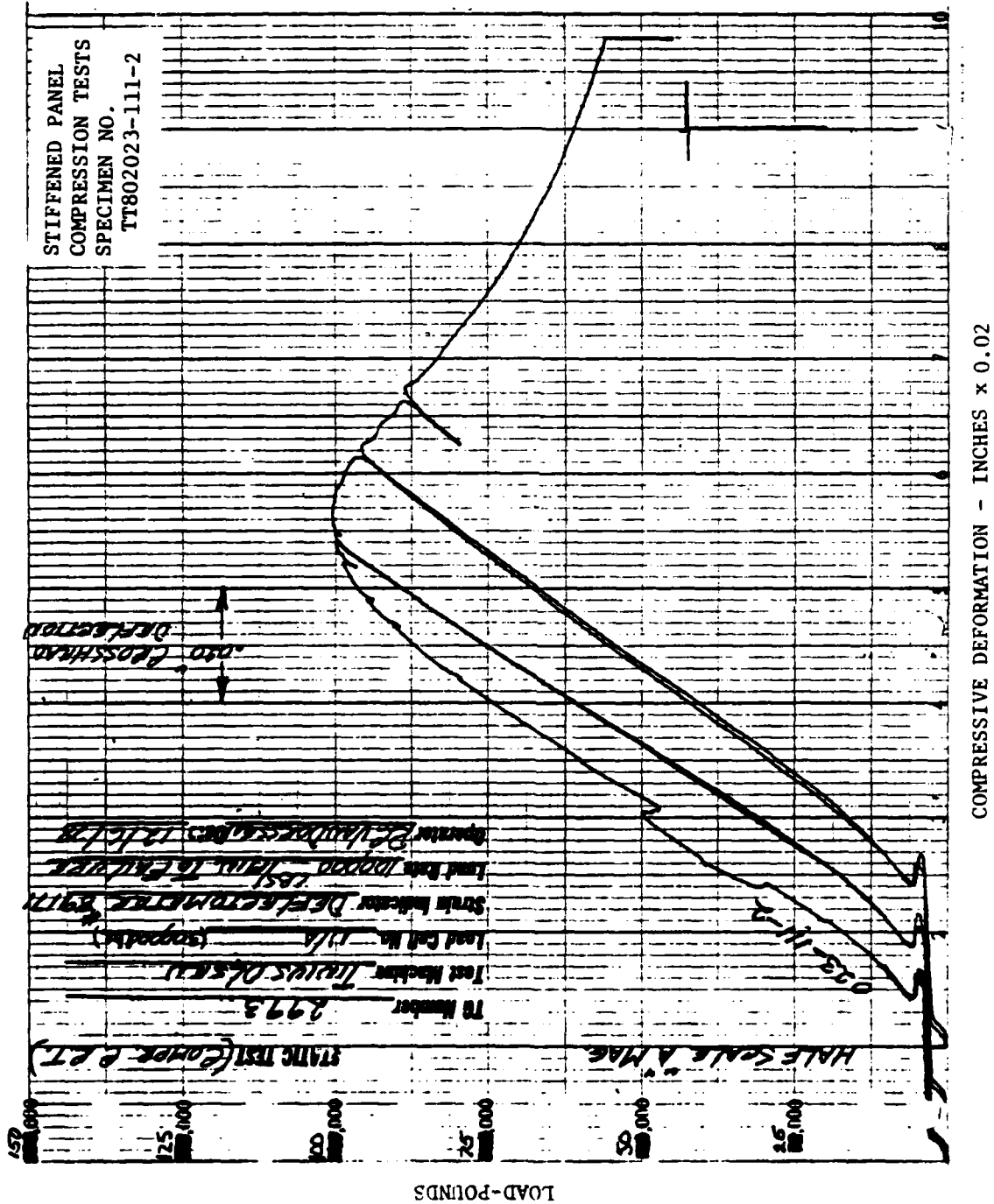
101K

100K

95K

90K

80K





SHEET 1 of 4

12/6/78

PANEL TT802023-111-2

Strain Gage Zero Ref.	Strain Gage R Cal	DEFL. IND. ZERO REF. @ 5K	Test Start 0	10K	20K
34-00003	34+01414	34+01343	34+00002	34-00199	34-00409
33-00004	33+01417	33+01385	33-00001	33-00091	33-00197
32-00003	32+01417	32+01362	32-00006	32-00143	32-00315
31-00003	31+01414	31+01374	31-00003	31-00105	31-00229
30-00003	30+01415	30+01336	30-00001	30-00203	30-00450
29-00002	29+01416	29+01354	29-00013	29-00157	29-00336
28-00003	28+01415	28+01372	28-00000	28-00127	28-00274
27-00001	27+01416	27+01352	27-00002	27-00168	27-00360
26-00000	26+01416	26+01358	26-00001	26-00146	26-00325
25-00000	25+01419	25+01363	25-00001	25-00144	25-00333
24-00002	24+01416	24+01361	24-00003	24-00138	24-00296
23-00002	23+01415	23+01338	23-00019	23-00162	23-00378
22-00001	22+01416	22+01363	22-00006	22-00128	22-00264
21-00002	21+01417	21+01342	21-00008	21-00181	21-00399
20-00002	20+00055	20-00036	20-00035	20-00633	20-00634
19-00006	19+00003	19-00005	19-00004	19-00604	19-00603
18-00009	18+00007	18-00004	18-00006	18-00609	18-00608
17-00009	17+00004	17-00003	17-00006	17-00606	17-00608
16-00007	16+00007	16-00004	16-00009	16-00609	16-00608
15-00061	15+00061	15-00001	15-00000	15+00000	15+00000
14+00450	14+00450	14-00000	14-00001	14+00001	14+00003
13+00251	13+00251	13-00000	13-00000	13-00000	13-00000
12+00589	12+00589	12-00000	12-00000	12-00000	12-00000
11+00460	11+00460	11-00001	11-00000	11-00002	11-00002
10+00476	10+00476	10-00000	10-00000	10+00001	10+00000
09+00214	09+00214	09-00001	09-00001	09+00004	09+00013
08+00451	08+00451	08-00001	08+00000	08+00000	08+00000
07+00270	07+00270	07-00000	07-00001	07+00003	07+00005
06+00649	06+00649	06-00000	06-00000	06+00000	06+00002
05+00133	05+00133	05-00002	05-00010	05+00003	05+00006
04+00261	04+00261	04+00001	04-00011	04+00001	04+00001
03-00002	03-00002	03+00000	03-00006	03+00001	03-00000
02+00146	02+00146	02+00001	02-00011	02-00002	02-00002
01+00106	01+00106	01-00004	01-00014	01-00004	01-00004
0032200	0032200	0033100	0033460	00336130	00336360
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780

**PANEL TT802023-111-2**

34-00620	34-01047	34-01238	34-01378	34-01437	33-00780	33-00781	33-00782	33-00783	33-00784	33-00785	33-00786	33-00787	33-00788	33-00789	33-00790	33-00791	33-00792	33-00793	33-00794	33-00795	33-00796	33-00797	33-00798	33-00799	33-00800	33-00801	33-00802	33-00803	33-00804	33-00805	33-00806	33-00807	33-00808	33-00809	33-00810	33-00811	33-00812	33-00813	33-00814	33-00815	33-00816	33-00817	33-00818	33-00819	33-00820	33-00821	33-00822	33-00823	33-00824	33-00825	33-00826	33-00827	33-00828	33-00829	33-00830	33-00831	33-00832	33-00833	33-00834	33-00835	33-00836	33-00837	33-00838	33-00839	33-00840	33-00841	33-00842	33-00843	33-00844	33-00845	33-00846	33-00847	33-00848	33-00849	33-00850	33-00851	33-00852	33-00853	33-00854	33-00855	33-00856	33-00857	33-00858	33-00859	33-00860	33-00861	33-00862	33-00863	33-00864	33-00865	33-00866	33-00867	33-00868	33-00869	33-00870	33-00871	33-00872	33-00873	33-00874	33-00875	33-00876	33-00877	33-00878	33-00879	33-00880	33-00881	33-00882	33-00883	33-00884	33-00885	33-00886	33-00887	33-00888	33-00889	33-00890	33-00891	33-00892	33-00893	33-00894	33-00895	33-00896	33-00897	33-00898	33-00899	33-00900	33-00901	33-00902	33-00903	33-00904	33-00905	33-00906	33-00907	33-00908	33-00909	33-00910	33-00911	33-00912	33-00913	33-00914	33-00915	33-00916	33-00917	33-00918	33-00919	33-00920	33-00921	33-00922	33-00923	33-00924	33-00925	33-00926	33-00927	33-00928	33-00929	33-00930	33-00931	33-00932	33-00933	33-00934	33-00935	33-00936	33-00937	33-00938	33-00939	33-00940	33-00941	33-00942	33-00943	33-00944	33-00945	33-00946	33-00947	33-00948	33-00949	33-00950	33-00951	33-00952	33-00953	33-00954	33-00955	33-00956	33-00957	33-00958	33-00959	33-00960	33-00961	33-00962	33-00963	33-00964	33-00965	33-00966	33-00967	33-00968	33-00969	33-00970	33-00971	33-00972	33-00973	33-00974	33-00975	33-00976	33-00977	33-00978	33-00979	33-00980	33-00981	33-00982	33-00983	33-00984	33-00985	33-00986	33-00987	33-00988	33-00989	33-00990	33-00991	33-00992	33-00993	33-00994	33-00995	33-00996	33-00997	33-00998	33-00999	33-01000	33-01001	33-01002	33-01003	33-01004	33-01005	33-01006	33-01007	33-01008	33-01009	33-01010	33-01011	33-01012	33-01013	33-01014	33-01015	33-01016	33-01017	33-01018	33-01019	33-01020	33-01021	33-01022	33-01023	33-01024	33-01025	33-01026	33-01027	33-01028	33-01029	33-01030	33-01031	33-01032	33-01033	33-01034	33-01035	33-01036	33-01037	33-01038	33-01039	33-01040	33-01041	33-01042	33-01043	33-01044	33-01045	33-01046	33-01047	33-01048	33-01049	33-01050	33-01051	33-01052	33-01053	33-01054	33-01055	33-01056	33-01057	33-01058	33-01059	33-01060	33-01061	33-01062	33-01063	33-01064	33-01065	33-01066	33-01067	33-01068	33-01069	33-01070	33-01071	33-01072	33-01073	33-01074	33-01075	33-01076	33-01077	33-01078	33-01079	33-01080	33-01081	33-01082	33-01083	33-01084	33-01085	33-01086	33-01087	33-01088	33-
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-----

SHEET 3 of 4

12/6/78

PANEL TT802023-111-2

34-01580	34-01782	34-02275	34-01483	34-02361	34-02924
33-00475	33-00475	33-00172	33-01791	33-00327	33-00917
32-01334	32-01334	32-01422	32-00056	32-01426	32-01387
31-00434	31-00434	31-01903	31-03634	31-02754	31-04164
30-03124	30-03880	30-05698	30-05641	30-06533	30-08351
29-01582	29-01677	29-01667	29-01667	29-01859	29-01817
28-00603	28-00470	28-00097	28-00095	28-00029	28-00185
27-01983	27-02143	27-02501	27-00505	27-02573	27-02747
26-02033	26-02197	26-02451	26-00481	26-02479	26-02530
25-01659	25-02026	25-02252	25-00483	25-02292	25-02374
24-00455	24-00307	24-00046	24-00101	24-00129	24-00280
23-02052	23-02305	23-02649	23-00464	23-02696	23-02771
22-00578	22-00413	22-00045	22-00478	22-00035	22-00163
21-01996	21-02116	21-02267	21-00637	21-02296	21-02256
20-00033	20-00033	20-00033	20-00034	20-00031	20-00031
19-00005	19-00005	19-00005	19-00004	19-00005	19-00004
18-00008	18-00008	18-00008	18-00009	18-00009	18-00009
17-00007	17-00007	17-00007	17-00007	17-00007	17-00007
16-00010	16-00010	16-00010	16-00009	16-00009	16-00010
15-00061	15-00061	15-00102	15-00042	15-00111	15-00142
14-00198	14-00198	14-00303	14-00089	14-00326	14-00379
13-00001	13-00001	13-00000	13-00001	13-00000	13-00001
12-00021	12-00021	12-00036	12-00008	12-00037	12-00039
11-00006	11-00006	11-00017	11-00002	11-00016	11-00018
10-00068	10-00068	10-00110	10-00050	10-00122	10-00149
09-00236	09-00236	09-00343	09-00107	09-00367	09-00419
08-00005	08-00005	08-00009	08-00005	08-00009	08-00010
07-00023	07-00023	07-00032	07-00010	07-00037	07-00036
06-00022	06-00022	06-00027	06-00009	06-00027	06-00027
05-00057	05-00057	05-00066	05-00022	05-00070	05-00079
04-00014	04-00014	04-00028	04-00006	04-00037	04-00049
03-00009	03-00009	03-00026	03-00000	03-00031	03-00045
02-00007	02-00007	02-00022	02-00000	02-00025	02-00038
01-00010	01-00010	01-00027	01-00009	01-00029	01-00037
00344370	00344370	00346060	00347010	00348250	00348450
*1204780	*1204780	*1204780	*1204780	*1204780	*1204780
90K	95K	100K	Perm. Set Check @ 0	100 K	100.6K

SHEET 4 of 4

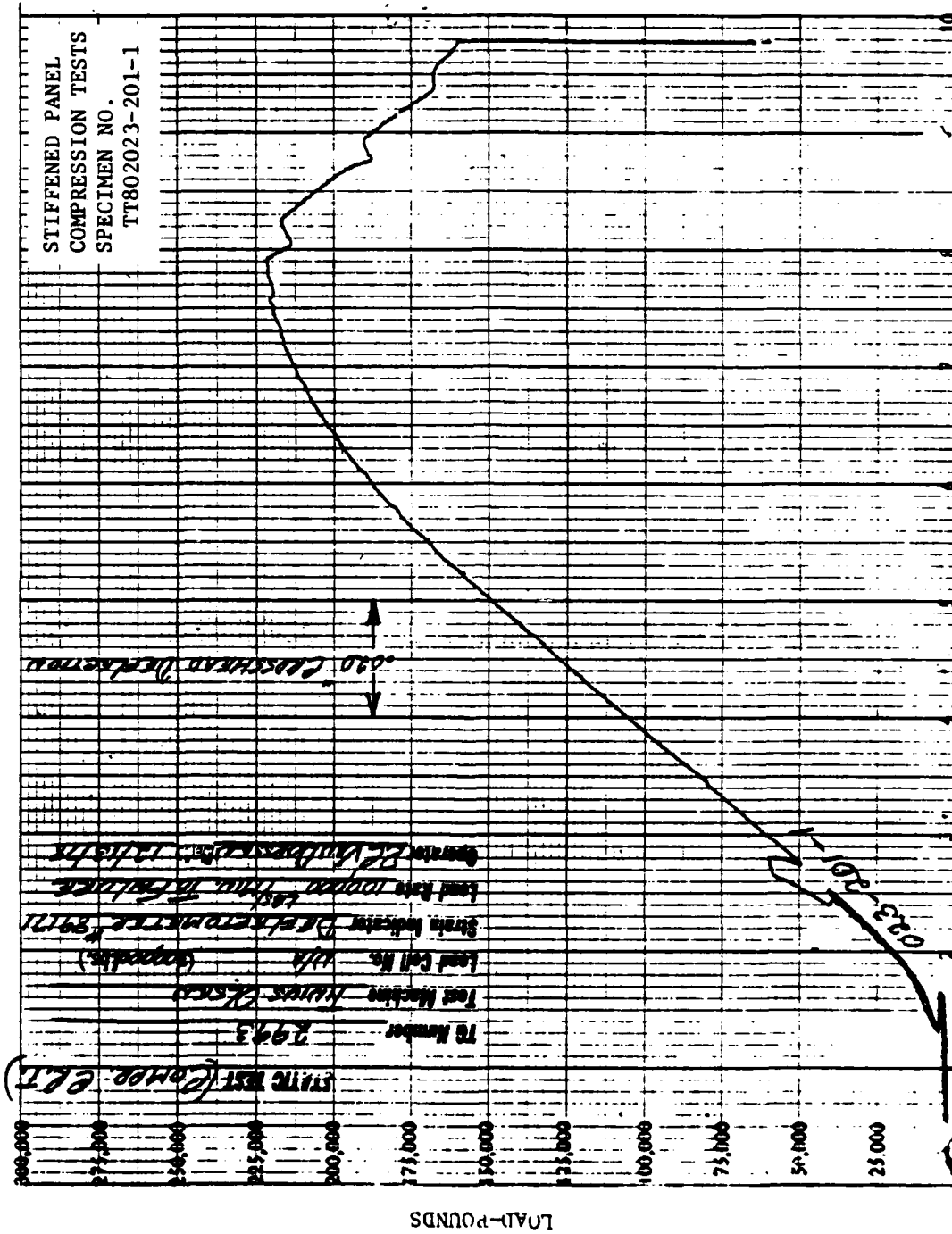
12/6/78

PANEL TT802023-111-2

34-03854	34-03324
33-02913	33-02424
32-00074	32-00467
31-08461	31-10728
30-12372	30-13832
29-00287	29-00734
28-00252	28-01532
27-00001	27-04035
26-00644	26-02450
25-00299	25-03021
24-00054	24-01175
23-00892	23-02723
22-00127	22-00595
21-00400	21-01402
20-00039	20-00029
19-00004	19-00004
18-00004	18-00009
17-00007	17-00007
16-00010	16-00010
15-00128	15-00283
14-00235	14-00612
13-00000	13-00002
12-00008	12-00026
11-00002	11-00013
10-00139	10-00294
09-00245	09-00623
08-00006	08-00018
07-00010	07-00024
06-00008	06-00027
05-00040	05-00142
04-00040	04-00134
03-00036	03-00126
02-00034	02-00119
01-00014	01-00096
00349540	00351460
*1204780	*1204780

Post Buckling  
Perm Set Check  
@ 96K

Post Buckling  
Perm Set Check  
@ 0



COMPRESSION TEST - INCHES x 0.02

SHEET 1 of 4

12/13/78

PANEL TT802023-201-1

34-000000	34+014201	34+00003	34-00252	34-00569
33-000000	33+014231	33-00003	33-000151	33-00031
32-000001	32+014201	32-00010	32-002001	32-00394
31-000001	31+014191	31+00001	31-000291	31-00063
30+000001	30+014211	30-00011	30-003501	30-00687
29-000001	29+014181	29-00003	29-001771	29-00358
28-000001	28+014201	28-00007	28-001301	28-00285
27-000002	27+014211	27+00003	27-001821	27-00397
26-000001	26+014211	26-00014	26-002311	26-00465
25-000002	25+014201	25-00005	25-002121	25-00417
24-000001	24+014201	24-00003	24-001901	24-00371
23-000001	23+014191	23-00006	23-002231	23-00450
22-000002	22+014201	22-00007	22-000901	22-00178
21-000002	21+014211	21-00012	21-002961	21-00604
20-000004	20-000361	20-00046	20-000061	20-00005
19-000010	19-000081	19-00013	19-000131	19-00013
18-000015	18-000131	18-00017	18-000171	18-00017
17-000013	17-000101	17-00015	17-000151	17-00015
16-000015	16-000141	16-00017	16-000171	16-00017
15-000023	15-000621	15-00002	15-000021	15-00004
14-000793	14-007931	14-00001	14-000011	14-00003
13-000729	13-007291	13-00000	13-000001	13-00001
12-000764	12-007641	12-00001	12-000011	12-00007
11-000625	11-006251	11-00002	11-000021	11-00002
10-000702	10-007021	10-00001	10-000011	10-00000
09-000708	09-007081	09-00001	09-000011	09-00001
08-000779	08-007791	08-00001	08-000011	08-00000
07-000755	07-007551	07-00000	07-000001	07-00004
06-000819	06-008191	06-00001	06-000011	06-00002
05-000553	05-005531	05-00000	05-000001	05-00002
04-000425	04-004251	04-00001	04-000011	04-00001
03-000436	03-004361	03-00001	03-000011	03-00004
02-000427	02-004271	02-00000	02-000001	02-00004
01-000607	01-006071	01-00000	01-000001	01-00003
012375401	012375401	01319170	01323130	01324270
012117801	012117801	01211780	01211780	01211780

Test Start  
0DEFL. IND.  
ZERO REF.

@5K

Strain Gage  
R CalStrain Gage  
Zero Ref.

40K

20K

SHEET 2 of 4

12/13/78

PANEL TT802023-201-1

34-00921	34-01274	34-02077	34-02496	34-03087
33-00059	33-00076	33-00080	33-00049	33-00127
32-00573	32-00761	32-01131	32-01310	32-01494
31-00094	31-00132	31-00224	31-00220	31-00119
30-01031	30-01389	30-02101	30-02675	30-03623
29-00543	29-00716	29-01058	29-01218	29-01379
28-00434	28-00572	28-00785	28-00648	28-00877
27-00620	27-00843	27-01062	27-01463	27-01698
26-00715	26-00981	26-01260	26-01876	26-02224
25-00623	25-00830	25-01036	25-01438	25-01648
24-00546	24-00718	24-00877	24-01128	24-01217
23-00683	23-00922	23-01171	23-01751	23-02104
22-00282	22-00379	22-00452	22-00468	22-00347
21-00523	21-01249	21-02127	21-02744	21-03469
20-00005	20-00888	20-00005	20-00007	20-00006
19-00012	19-00663	19-00013	19-00013	19-00013
18-00017	18-00667	18-00019	18-00017	18-00018
17-00015	17-00667	17-00015	17-00015	17-00015
16-00017	16-00667	16-00017	16-00017	16-00017
15-00006	15-00010	15-00016	15-00023	15-00029
14-00009	14-00010	14-00018	14-00027	14-00032
13-00005	13-00008	13-00013	13-00014	13-00016
12-00013	12-00020	12-00034	12-00043	12-00054
11-00003	11-00005	11-00011	11-00016	11-00023
10-00001	10-00005	10-00009	10-00012	10-00016
09-00004	09-00006	09-00010	09-00015	09-00020
08-00000	08-00006	08-00001	08-00006	08-00005
07-00006	07-00011	07-00021	07-00025	07-00033
06-00007	06-00012	06-00016	06-00024	06-00034
05-00003	05-00002	05-00003	05-00003	05-00007
04-00001	04-00003	04-00004	04-00004	04-00003
03-00004	03-00009	03-00013	03-00015	03-00017
02-00000	02-00005	02-00004	02-00004	02-00004
01-00002	01-00003	01-00004	01-00003	01-00003
01325020	01326370	01328060	01329290	01329540
*1211780	*1211780	*1211780	*1211780	*1211780
60K	80K	100K	140K	160K

SHEET 3 of 4

12/13/78

PANEL TT802023-201-1

34-03502	34-04085	34-05973	34-07761	34-11650
33-00256	33-00449	33-01042	33-01612	33-02639
32-01585	32-01675	32-01856	32-01926	32-01882
31-00026	31-00120	31-00337	31-01261	31-02631
30-04208	30-05073	30-07870	30-10472	30-16865
29-01458	29-01531	29-01657	29-01688	29-01568
28-00870	28-00848	28-00734	28-00611	28-00329
27-01810	27-01932	27-02239	27-02481	27-02987
26-02404	26-02607	26-03047	26-03283	26-03531
25-01767	25-01890	25-02024	25-02429	25-02540
24-01256	24-01278	24-01258	24-01199	24-01027
23-02287	23-02493	23-02953	23-03195	23-03436
22-00303	22-00234	22-00149	22-00107	22-00338
21-03802	21-04226	21-05299	21-05568	21-06771
20-00005	20-00006	20-00005	20-00005	20-00006
19-00013	19-00013	19-00013	19-00013	19-00013
18-00016	18-00016	18-00016	18-00016	18-00016
17-00015	17-00015	17-00015	17-00015	17-00015
16-00018	16-00018	16-00018	16-00018	16-00018
15-00033	15-00037	15-00055	15-00055	15-00099
14-00037	14-00041	14-00054	14-00067	14-00089
13-00022	13-00026	13-00031	13-00035	13-00044
12-00063	12-00071	12-00098	12-00123	12-00175
11-00031	11-00038	11-00056	11-00078	11-00122
10-00022	10-00025	10-00031	10-00053	10-00083
09-00024	09-00026	09-00037	09-00049	09-00068
08-00010	08-00010	08-00014	08-00014	08-00020
07-00038	07-00046	07-00052	07-00082	07-00122
06-00038	06-00042	06-00051	06-00082	06-00126
05-00006	05-00008	05-00012	05-00011	05-00006
04-00003	04-00003	04-00007	04-00016	04-00034
03-00017	03-00017	03-00022	03-00031	03-00057
02-00006	02-00007	02-00026	02-00018	02-00036
01-00003	01-00002	01-00009	01-00008	01-00025
01330300	01330590	01331290	01332200	01332490
01211780	01211780	01211780	01211780	01211780
170K	180K	200K	210K	220K



AD-A087 438

ROHR MARINE INC NATIONAL CITY CA  
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)  
MAY 80

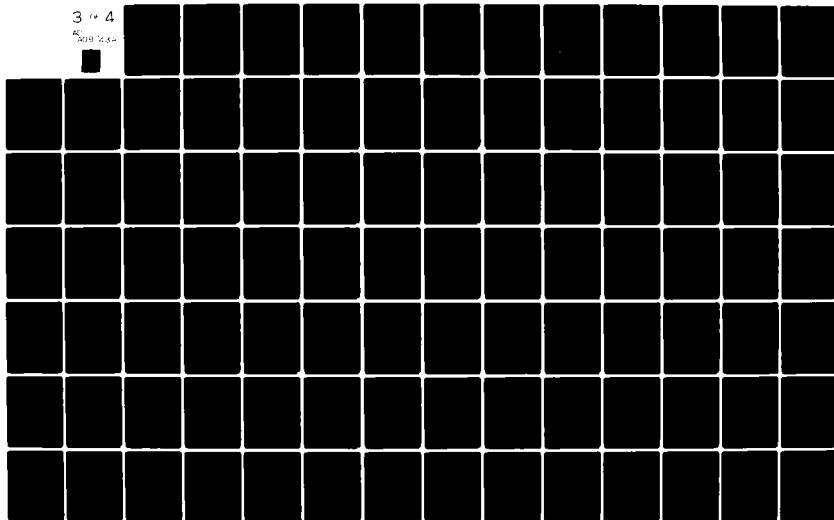
F/G 13/10

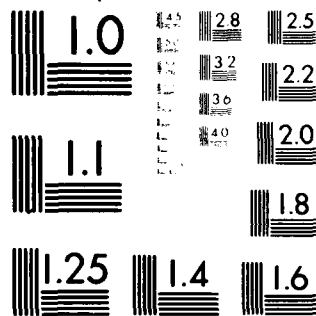
N00024-77-C-2032  
NL

UNCLASSIFIED

3 of 4

5010 5010





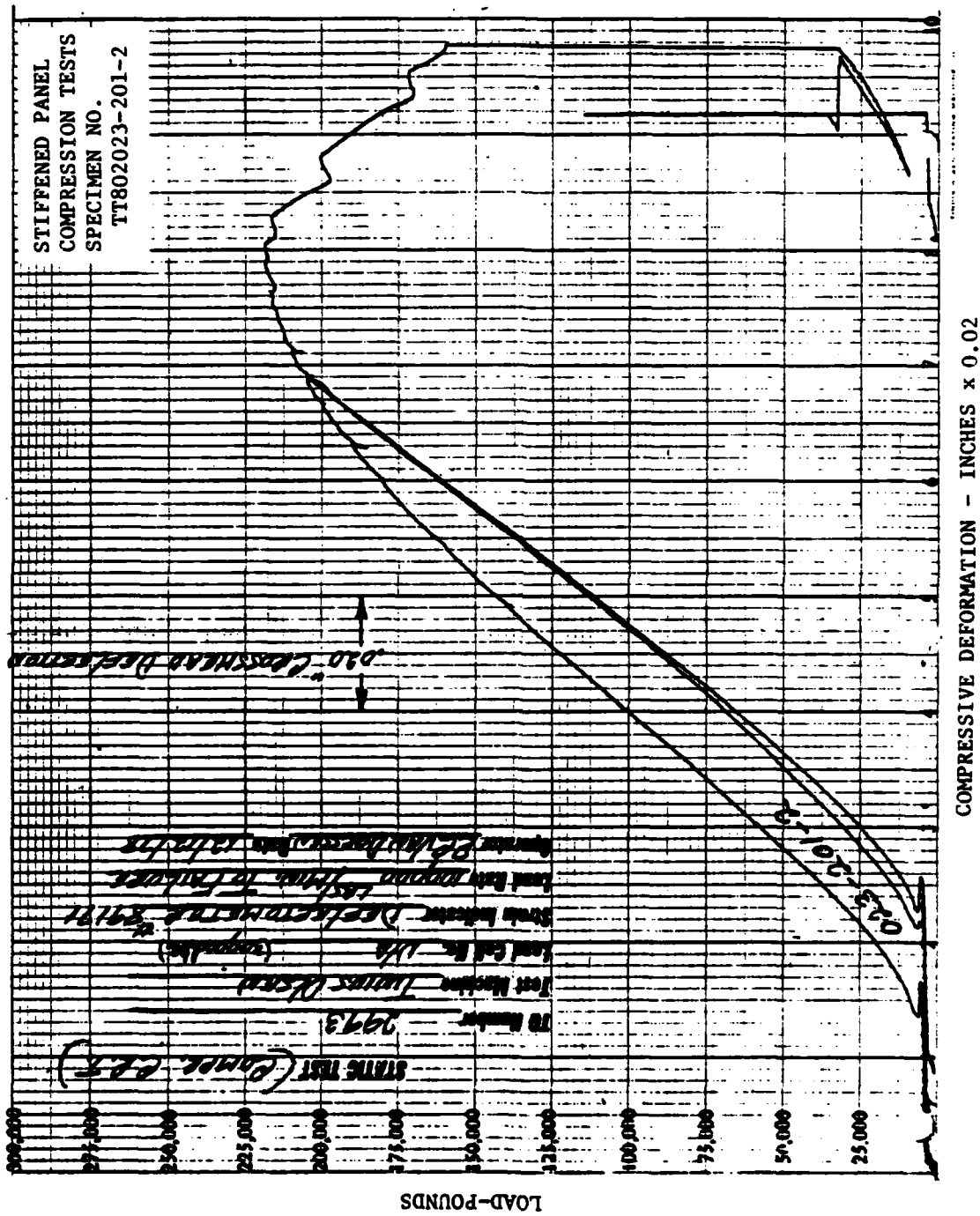
MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

TER073

SHEET 4 of 4

PANEL TT802023-201-1 12/13/78

34-14541	34-10616
33-03872	33-03087
32-01264	32-00022
31-03943	31-03461
30-19280	30-15973
29-00996	29-00352
28-00488	28-00781
27-03433	27-00445
26-02209	26-00999
25-03307	25-00029
24-00517	24-00273
23-02796	23-01041
22-00782	22-00756
21-05969	21-03005
20-00041	20-00099
19-00014	19-00015
18-00019	18-00020
17-00016	17-00018
16-00020	16-00020
15-00112	15-00073
14-00089	14-00054
13-00076	13-00071
12-00433	12-00727
11-00435	11-01001
10-00097	10-00074
09-00068	09-00059
08-00023	08-00034
07-00354	07-00643
06-00431	06-00653
05-00112	05-00600
04-00172	04-00644
03-00205	03-00651
02-00169	02-00638
01-00143	01-00628
0133050	0133020
0121180	0121180
222.25K	Post Buckling
	@ 0



SHEET 1 of 5

12/14/78

PANEL TT802023-201-2

34-00003	34-01420	34-00080	34-00013	34-00010	34-00340
33-00000	33-01421	33-00002	33-00000	33-00002	33-00021
32-00000	32-01419	32-00032	32-00005	32-00005	32-00184
31-00000	31-01420	31-00012	31-00003	31-00002	31-00070
30-00001	30-01418	30-00037	30-00005	30-00005	30-00255
29-00001	29-01420	29-00035	29-00003	29-00003	29-00200
28-00001	28-01422	28-00028	28-00001	28-00000	28-00160
27-00000	27-01421	27-00040	27-00003	27-00002	27-00206
26-00000	26-01420	26-00044	26-00007	26-00007	26-00222
25-00000	25-01421	25-00030	25-00000	25-00001	25-00191
24-00001	24-01419	24-00024	24-00001	24-00002	24-00156
23-00001	23-01417	23-00043	23-00004	23-00005	23-00233
22-00001	22-01419	22-00011	22-00000	22-00000	22-00167
21-00000	21-01418	21-00059	21-00006	21-00007	21-00307
20-00001	20-00073	20-00003	20-00000	20-00009	20-00003
19-00001	19-00001	19-00009	19-00000	19-00000	19-00001
18-00001	18-00005	18-00005	18-00004	18-00005	18-00004
17-00001	17-00003	17-00001	17-00002	17-00002	17-00003
16-00001	16-00000	16-00009	16-00004	16-00005	16-00006
15-00195	15-00195	15-00001	15-00001	15-00001	15-00001
14-00104	14-00104	14-00001	14-00001	14-00001	14-00001
13-00094	13-00094	13-00001	13-00000	13-00000	13-00000
12-00111	12-00112	12-00000	12-00000	12-00000	12-00000
11-00152	11-00151	11-00000	11-00000	11-00000	11-00000
10-00192	10-00192	10-00000	10-00000	10-00000	10-00000
09-00202	09-00203	09-00000	09-00000	09-00000	09-00000
08-00118	08-00118	08-00000	08-00000	08-00000	08-00000
07-00165	07-00166	07-00001	07-00001	07-00000	07-00000
06-00071	06-00071	06-00000	06-00001	06-00000	06-00000
05-00098	05-00098	05-00000	05-00000	05-00000	05-00000
04-00088	04-00088	04-00001	04-00000	04-00001	04-00001
03-00097	03-00098	03-00000	03-00001	03-00000	03-00000
02-00102	02-00101	02-00000	02-00000	02-00000	02-00000
01-00010	01-00009	01-00001	01-00010	01-00009	01-00001
0098270	0098390	01005460	01006570	01008510	01009470
*1211780	*1211780	*1211780	*1211780	*1211780	*1211780
Strain Gage	Strain Gage	DEFL. IND.	Test Start	Test Start	20K
Zero Ref.	Zero Ref.	ZERO REF.	0	0 Recheck	
	R Cal	@ 5K			

SHEET 2 of 5

12/14/78

PANEL TT802023-201-2

34-00727	34-01101	34-01498	34-02012	34-03627	34-05224
33-00055	33-00091	33-00125	33-00094	33-00175	33-00436
32-00379	32-00564	32-00745	32-00922	32-01077	32-01224
31-00144	31-00224	31-00304	31-00365	31-00324	31-00169
30-00560	30-00475	30-01199	30-01554	30-01967	30-02496
29-00394	29-00577	29-00765	29-00944	29-01126	29-01294
28-00325	28-00481	28-00624	28-00753	28-00851	28-00914
27-00424	27-00444	27-00464	27-01080	27-01245	27-01441
26-00461	26-00704	26-00954	26-01220	26-01513	26-01444
25-00405	25-00411	25-00425	25-01041	25-01265	25-01447
24-00321	24-00474	24-00624	24-00760	24-00879	24-00971
23-00474	23-00722	23-00984	23-01272	23-01574	23-01494
22-00144	22-00230	22-00284	22-00292	22-00244	22-00162
21-00435	21-00444	21-01307	21-01794	21-02404	21-03090
20-00404	20-00404	20-00404	20-00404	20-00404	20-00404
19-00404	19-00404	19-00404	19-00404	19-00404	19-00404
18-00404	18-00404	18-00404	18-00404	18-00404	18-00404
17-00404	17-00404	17-00404	17-00404	17-00404	17-00404
16-00404	16-00404	16-00404	16-00404	16-00404	16-00404
15-00001	15-00003	15-00004	15-00004	15-00014	15-00021
14-00004	14-00004	14-00013	14-00016	14-00021	14-00030
13-00000	13-00000	13-00000	13-00004	13-00004	13-00008
12-00003	12-00004	12-00012	12-00017	12-00023	12-00030
11-00000	11-00000	11-00004	11-00007	11-00012	11-00015
10-00000	10-00004	10-00004	10-00009	10-00011	10-00017
09-00000	09-00007	09-00009	09-00013	09-00014	09-00026
08-00009	08-00009	08-00009	08-00014	08-00015	08-00014
07-00012	07-00012	07-00017	07-00024	07-00030	07-00034
06-00009	06-00009	06-00014	06-00017	06-00022	06-00024
05-00002	05-00002	05-00002	05-00001	05-00001	05-00001
04-00005	04-00005	04-00006	04-00010	04-00009	04-00009
03-00004	03-00004	03-00014	03-00014	03-00020	03-00023
02-00005	02-00005	02-00005	02-00007	02-00010	02-00010
01-00001	01-00001	01-00000	01-00001	01-00000	01-00001
00-00220	00-01010	00-01300	00-01570	00-01340	00-01420
01211780	01211780	01211780	01211780	01211780	01211780
40K	60K	80K	100K	120K	140K

SHEET 3 of 5

12/14/78

PANEL TT802023-201-2

34-07386	34-12613	34-13383	34-15A26	34-17282
33+00830	33+01947	33+02154	33+02613	33+03058
32-01366	32-01450	32-01584	31+01003	32-01600
31-00041	31+00562	31+00676	30-09054	31+01310
30-03954	30-06882	30-07411	29-01603	30-10257
29-01472	29-01736	29-01782	28-00A05	29-01A31
28-00938	28-00A77	28-00A51	27-02224	28-00743
27-01681	27-02050	27-02127	26-03127	27-02351
26-02220	26-02647	26-02491	25-02324	26-03253
25-01721	25-02129	25-02710	24-00989	25-02455
24-01037	24-01034	24-01023	23-03000	24-00940
23-02237	23-02799	23-02890	22+00313	23-03102
22-00034	22+00211	22+00258	21-05630	22+00406
21-03A62	21-05174	21-05386	20-00004	21-06020
20-00005	20-00003	20-00002	19-00004	20-06003
19-00014	19-00010	19-00010	18-00010	19-00010
18-00014	18-00015	18-00014	17-00014	18-00014
17-00012	17-00012	17-00013	16-00014	17-00013
16-00015	16-00015	16-00015	15-00060	16-00014
15+00029	15+00047	15+00052	14+00069	15+00069
14+00039	14+00061	14+00065	13+00026	14+00078
13+00017	13+00022	13+00021	12+00084	13+00025
12+00044	12+00070	12+00075	11+00057	12+00096
11+00026	11+00046	11+00050	10+00052	11+00065
10+00027	10+00035	10+00044	09+00054	10+00061
09+00035	09+00044	09+00053	08+00035	09+00074
08+00024	08+00032	08+00036	07+00092	08+00039
07+00052	07+00066	07+00079	06+00074	07+00101
06+00039	06+00052	06+00062	05+00063	06+00063
05+00003	05+00052	05+00063	04+00006	05+00006
04+00009	04+00039	04+00013	03+00016	04+00017
03+00025	03+00029	03+00034	02+00034	03+00042
02+00014	02+00014	02+00018	01-00004	02+00022
01-00002	01-00004	01-00006	01014320	01-00002
01014160	01014450	01015280	01211780	01016560
01211780	01211780	01211780	01211780	01211780

205K

200K

195K

190K

180K

160K

Perma Set Check @ 0

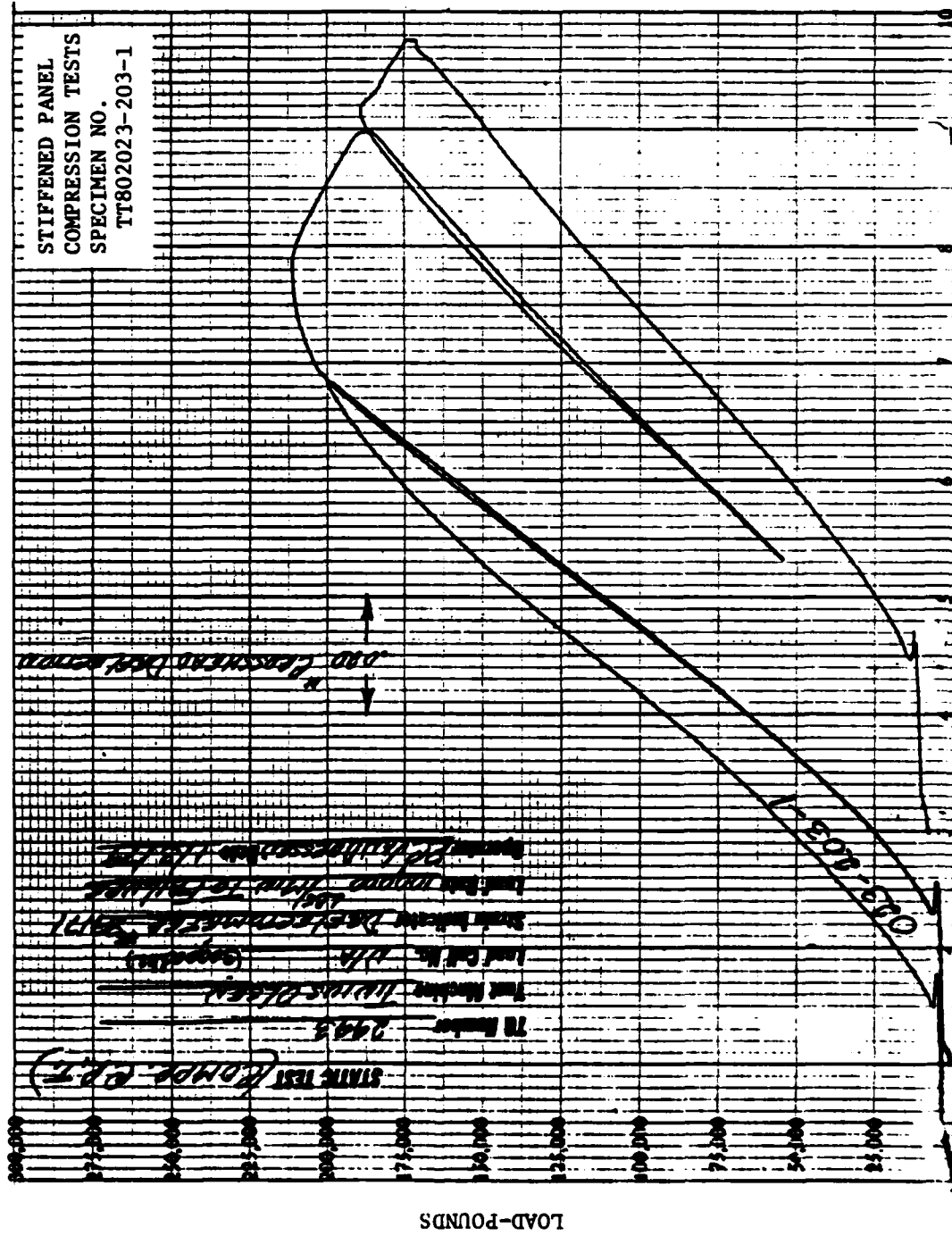
[illegible]



**PANEL TT802023-201-2**

**Post Buckling**  
**@ 0**

**Post Buckling  
@ 115K**



SHEET 1 of 4

1/3/79

PANEL TT802023-203-1

34-00001	34-00001	34-00111	34-00262	34-00434
33-00000	33-00004	33-00237	33-00512	33-00421
32-00001	32-00008	32-00175	32-00341	32-00496
31-00001	31-00013	31-00035	31-00066	31-00099
30-00000	30-00007	30-00312	30-00580	30-00838
29-00001	29-00032	29-00213	29-00442	29-00666
28-00000	28-00001	28-00243	28-00533	28-00651
27-00001	27-00000	27-00092	27-00195	27-00295
26-00001	26-00006	26-00174	26-00359	26-00549
25-00001	25-00018	25-00097	25-00179	25-00244
24-00000	24-00003	24-00335	24-00477	24-00620
23-00001	23-00005	23-00207	23-00414	23-00616
22-00000	22-00004	22-00213	22-00441	22-00674
21-00001	21-00004	21-00166	21-00337	21-00500
20-00000	20-00024	20-00024	20-00024	20-00024
19-00000	19-00005	19-00005	19-00005	19-00005
18-00000	18-00004	18-00004	18-00004	18-00004
17-00000	17-00007	17-00007	17-00007	17-00007
16-00000	16-00008	16-00008	16-00008	16-00008
15-00001	15-00001	15-00001	15-00001	15-00001
14-00001	14-00001	14-00003	14-00014	14-00023
13-00000	13-00004	13-00013	13-00031	13-00054
12-00002	12-00000	12-00010	12-00027	12-00044
11-00001	11-00000	11-00009	11-00017	11-00029
10-00000	10-00000	10-00000	10-00005	10-00009
09-00001	09-00000	09-00012	09-00025	09-00038
08-00001	08-00000	08-00010	08-00024	08-00041
07-00001	07-00002	07-00007	07-00001	07-00006
06-00000	06-00001	06-00007	06-00010	06-00018
05-00001	05-00006	05-00005	05-00010	05-00019
04-00001	04-00008	04-00005	04-00009	04-00015
03-00001	03-00010	03-00004	03-00017	03-00031
02-00001	02-00010	02-00004	02-00012	02-00025
01-00000	01-00009	01-00001	01-00002	01-00000
0112050	0112130	0112240	0112310	0112340
0103790	0103790	0103790	0103790	0103790
5K	5K	20K	40K	60K
Strain Gage	DEFL. IND.			
Zero Ref.	ZERO REF.			
	@5K			

SHEET 2 of 4

1/3/79

PANEL TT802023-203-1

34-00627	34-01068	34-01368	34-01812	34-02616
33-01125	33-01514	33-01655	33-01749	33-01685
32-00648	32-00920	32-01042	32-01154	32-01244
31-00125	31-00073	31+00084	31+00358	31+00633
30-01115	30-01125	30-02080	30-02569	30-03364
29-00885	29-01092	29-01517	29-01759	29-02026
28-01188	28-01533	28-02292	28-02739	28-03294
27-00380	27-00445	27-00487	27-00438	27-00315
26-00740	26-00932	26-01132	26-01591	26-01857
25-00293	25-00321	25-00318	25-00195	25-00650
24-01371	24-01728	24-02090	24-02686	24-03349
23-00818	23-01023	23-01243	23-01772	23-02095
22-00908	22-01145	22-01236	22-01684	22-01904
21-00668	21-00834	21-01073	21-01704	21-01995
20-00826	20-00827	20-00826	20-00827	20-00827
19-00605	19-00604	19-00605	19-00604	19-00605
18-00604	18-00606	18-00605	18-00606	18-00604
17-00606	17-00606	17-00607	17-00607	17-00606
16-00606	16-00608	16-00609	16-00608	16-00609
15-00001	15-00001	15-00002	15-00002	15-00002
14-00035	14-00048	14-00088	14-00115	14-00155
13-00076	13-00105	13-00138	13-00237	13-00308
12-00067	12-00089	12-00114	12-00186	12-00240
11-00081	11-00051	11-00062	11-00097	11-00119
10-00015	10-00022	10-00040	10-00049	10-00067
09-00052	09-00070	09-00092	09-00158	09-00212
08-00059	08-00081	08-00108	08-00187	08-00250
07-00013	07-00021	07-00032	07-00076	07-00107
06-00023	06-00028	06-00033	06-00041	06-00041
05-00028	05-00040	05-00055	05-00072	05-00131
04-00023	04-00026	04-00035	04-00044	04-00084
03-00044	03-00057	03-00075	03-00120	03-00159
02-00034	02-00043	02-00054	02-00083	02-00109
01-00000	01-00004	01-00009	01-00036	01-00059
01124120	01124400	01125050	01126130	01126510
0103790	0103790	0103790	0103790	0103790
80K	100K	140K	160K	180K

SHEET 3 of 4

1/3/79

PANEL TT802023-203-1

34-03285	34-04229	34-03537	34-04259	34-05521	34-06002
33-01977	33-02085	33-01592	33-02100	33-02530	33-02466
32-01272	32-01279	32-01866	32-01273	32-01230	32-01236
31-01213	31-01747	31-02470	31-01736	31-02720	31-04188
30-04096	30-05128	30-03419	30-05149	30-06542	30-09824
29-02169	29-02318	29-00206	29-02333	29-02405	29-02018
28-03685	28-04330	28-00279	28-04365	28-06513	28-12354
27-00201	27-00008	27-00097	27-00020	27-00608	27-03656
26-02005	26-02163	26-00370	26-02168	26-02342	26-02368
25-00057	25-00205	25-00152	25-00208	25-00510	25-00704
24-03633	24-03995	24-00066	24-04002	24-04737	24-05498
23-02280	23-02489	23-00547	23-02497	23-02752	23-02790
22-02035	22-02185	22-00061	22-02194	22-02362	22-02377
21-02120	21-02223	21-01019	21-02221	21-02149	21-01663
20-00028	20-00029	20-00027	20-00029	20-00028	20-00027
19-00005	19-00005	19-00004	19-00004	19-00004	19-00005
18-00006	18-00007	18-00009	18-00007	18-00009	18-00007
17-00008	17-00008	17-00008	17-00008	17-00008	17-00008
16-00006	16-00006	16-00006	16-00006	16-00006	16-00006
15-00006	15-00010	15-00001	15-00010	15-00011	15-00002
14-00186	14-00225	14-00052	14-00230	14-00302	14-00319
13-00362	13-00438	13-00067	13-00443	13-00012	13-00031
12-00278	12-00333	12-00067	12-00335	12-00441	12-00535
11-00136	11-00158	11-00046	11-00160	11-00197	11-00214
10-00080	10-00098	10-00032	10-00098	10-00134	10-00170
09-00247	09-00300	09-00060	09-00300	09-00404	09-00504
08-00297	08-00361	08-00054	08-00361	08-00496	08-00631
07-00138	07-00173	07-00034	07-00173	07-00276	07-00392
06-00041	06-00041	06-00015	06-00041	06-00032	06-00010
05-00147	05-00174	05-00041	05-00178	05-00032	05-00020
04-00106	04-00140	04-00015	04-00141	04-00223	04-00361
03-00186	03-00226	03-00041	03-00230	03-00318	03-00413
02-00127	02-00158	02-00022	02-00159	02-00229	02-00309
01-00073	01-00092	01-00020	01-00092	01-00129	01-00156
01127140	01127400	01129180	01132060	01132340	01132440
00103790	00103790	00103790	00103790	00103790	00103790

Perm. Set Check  
@ 0

190K

200K

200K

210K

211K

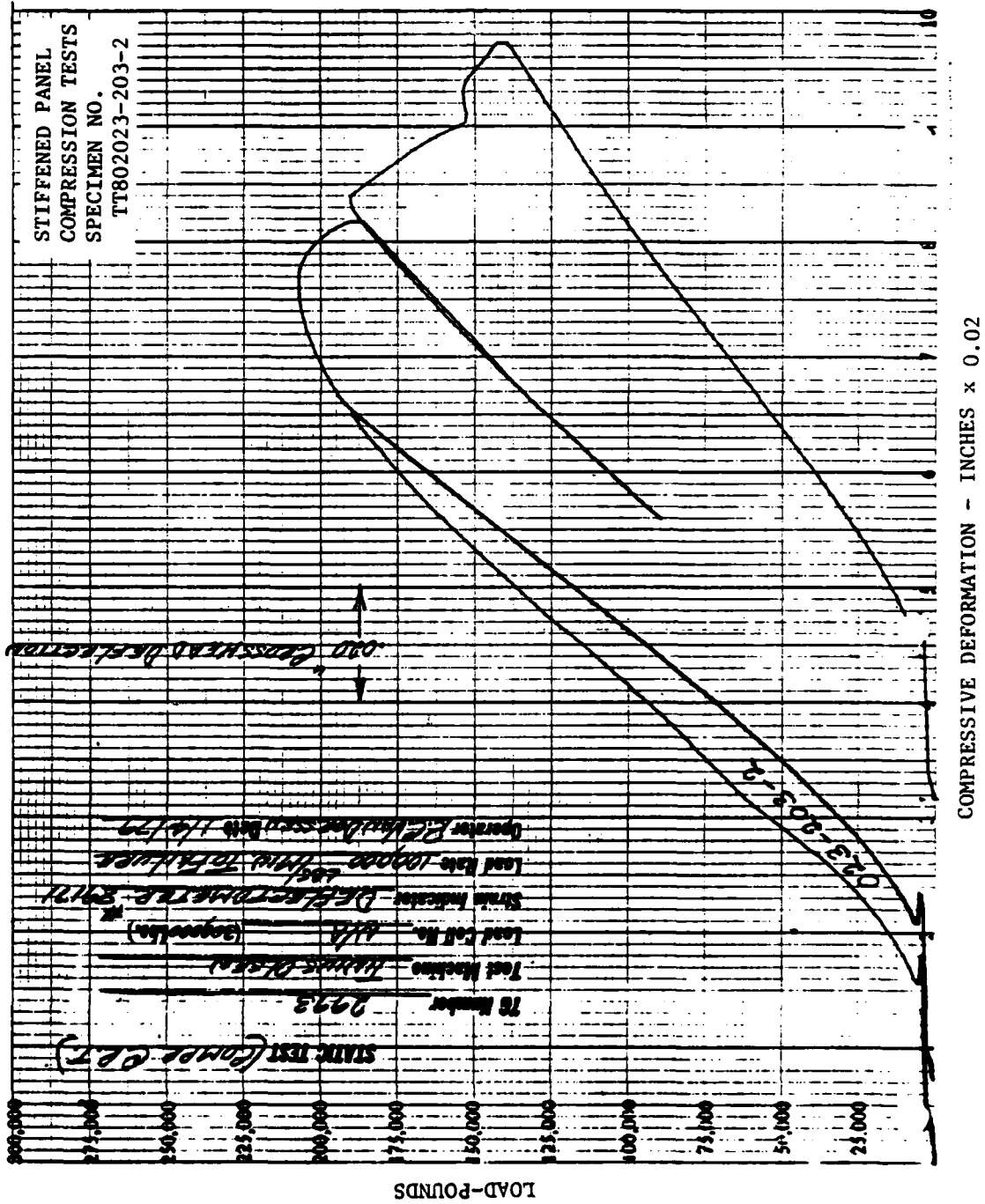
TER073

SHEET 4 of 4

1/3/79

PANEL TT802023-203-1

34-06600	34-05993	Post Buckling
33-01178	33-01696	@ 188.5K
32-01169	32-00258	
31-06834	31-07766	
30-14179	30-13833	
29-00772	29-00607	
28-00600	28-24249	
27-02079	27-01587	
26-01607	26-00552	
25-00034	25-00036	
24-05131	24-00468	
23-02492	23-00836	
22-02037	22-00553	
21-00506	21-00786	
20-00024	20-00024	
19-00065	19-00065	
18-00010	18-00069	
17-00007	17-00067	
16-00009	16-00006	
15-00020	15-00043	
14-00252	14-00053	
13-01286	13-00759	
12-00626	12-00288	
11-00227	11-00114	
10-00259	10-00202	
09-00695	09-00372	
08-00915	08-00429	
07-00782	07-00483	
06-00057	06-00052	
05-00139	05-00009	
04-00795	04-00027	
03-00644	03-00329	
02-00546	02-00224	
01-00160	01-00093	
00135100	001364301	
00103790	001037901	
Post Buckling	Post Buckling	
@ 188.5K	@ 0	



Sheet 1 of 4

1/4/79

PANEL TT802023-203-2

Strain Gage Zero Ref.	DEFL. IND. ZERO REF. @ 5K	Test Start 0	20K	40K	60K
34+00000	34+00067	34+00011	34+00185	34+00335	34+00522
33+00000	33+00049	33+00009	33+00213	33+00447	33+00700
32+00001	32+00033	32+00008	32+00181	32+00358	32+00517
31+00001	31+00020	31+00006	31+00083	31+00160	31+00286
30+00000	30+00050	30+00009	30+00277	30+00548	30+00794
29+00000	29+00047	29+00011	29+00230	29+00463	29+00686
28+00000	28+00062	28+00006	28+00284	28+00579	28+00897
27+00001	27+00031	27+00008	27+00101	27+00177	27+00245
26+00002	26+00027	26+00006	26+00159	26+00340	26+00527
25+00000	25+00013	25+00005	25+00087	25+00177	25+00250
24+00001	24+00056	24+00010	24+00321	24+00678	24+01044
23+00000	23+00060	23+00015	23+00234	23+00445	23+00650
22+00001	22+00047	22+00008	22+00229	22+00470	22+00716
21+00000	21+00034	21+00008	21+00153	21+00300	21+00440
00902550	20+00033	20+00027	20+00027	20+00027	20+00029
0104790	19+00003	19+00004	19+00004	19+00003	19+00003
Strain Gage Zero Ref.	18+00007	18+00008	18+00009	18+00009	18+00004
	17+00005	17+00005	17+00004	17+00006	17+00004
	16+00007	16+00007	16+00007	16+00008	16+00004
	15+00001	15+00000	15+00001	15+00000	15+00000
	14+00001	14+00001	14+00006	14+00019	14+00032
	13+00000	13+00001	13+00013	13+00034	13+00063
	12+00000	12+00000	12+00010	12+00027	12+00048
	11+00000	11+00001	11+00007	11+00010	11+00024
	10+00000	10+00003	10+00000	10+00002	10+00004
	09+00000	09+00001	09+00010	09+00021	09+00029
	08+00001	08+00005	08+00009	08+00022	08+00040
	07+00000	07+00000	07+00006	07+00009	07+00013
	06+00001	06+00000	06+00000	06+00002	06+00009
	05+00000	05+00009	05+00005	05+00014	05+00027
	04+00000	04+00013	04+00000	04+00005	04+00010
	03+00000	03+00008	03+00009	03+00015	03+00027
	02+00001	02+00013	02+00000	02+00006	02+00014
	01+00000	01+00009	01+00001	01+00005	01+00005
	00912290	00913400	00915100	00915370	00916090
0104790	0104790	0104790	0104790	0104790	0104790



Sheet 2 of 4

1/4/79

PANEL TT802023-203-2

80K	100K	120K	140K	160K	180K
34-00731	34-0099A	34-01473	34-02149	34-03032	34-0423A
33-00A72	33-0099A	33-01065	33-01107	33-0110A	33-01059
32-0066A	32-00902	32-00932	32-01055	32-01149	32-01277
31-00321	31-0038A	31-00825	31-00452	31-00416	31-00242
30-01081	30-01331	30-01R50	30-0256A	30-03550	30-04965
29-00904	29-01113	29-01330	29-01551	29-01781	29-02035
28-01235	2A-01574	2A-01936	28-02329	2A-02751	28-03284
27-0029A	27-00326	27-00321	27-00276	27-00172	27-00014
26-0071A	26-00905	26-0110A	26-01333	26-01584	26-01A65
25-00306	25-00340	25-0034A	25-00310	25-00219	25-00050
24-01424	24-01F10	24-02220	24-02670	24-03185	24-03A10
23-00850	23-01050	23-01262	23-01503	23-01775	23-020A7
22-00572	22-01245	22-01547	22-01A7A	22-02076	22-02346
21-00563	21-00A7A	21-00A00	21-00953	21-01133	21-01344
20-00024	20-00024	20-00024	20-00029	20-00024	20-00035
19-00003	19-00003	19-00003	19-00003	19-00003	19-00003
18-00004	18-00004	18-00004	18-00004	18-00004	18-00004
17-00005	17-00005	17-00005	17-00005	17-00005	17-00005
16-00004	16-00004	16-00004	16-00004	16-00004	16-00004
15-00001	15-00004	15-00005	15-00006	15-00011	15-00016
14-00045	14-00063	14-000A1	14-00103	14-00133	14-00177
13-00094	13-00126	13-00161	13-00209	13-00267	13-0034A
12-00073	12-00100	12-00127	12-00161	12-00205	12-00261
11-00033	11-0008A	11-00064	11-00076	11-00095	11-00116
10-00009	10-00014	10-00021	10-00026	10-00037	10-00052
09-00043	09-0005A	09-0007A	09-00099	09-00130	09-00174
08-0005A	08-00081	08-0010A	08-00143	08-0018A	08-00261
07-00023	07-00031	07-00042	07-0005A	07-00086	07-00124
06-00013	06-00022	06-00027	06-00032	06-00036	06-00037
05-0003A	05-0004A	05-00063	05-00092	05-0010A	05-0013A
04-0001A	04-00027	04-00040	04-00052	04-00069	04-00099
03-00045	03-00062	03-00080	03-00101	03-00131	03-00172
02-00026	02-00040	02-00052	02-00066	02-00087	02-00113
01-00005	01-00005	01-00010	01-00020	01-00034	01-00062
00914370	00917120	00917520	0091A190	0091A480	00919180
00104790	00104790	00104790	00104790	00104790	00104790

## PANEL

**Post Buckling  
@ 190.5K**

207.5K

200K

190K

Perm. Set Check @ 0

190k

TER073

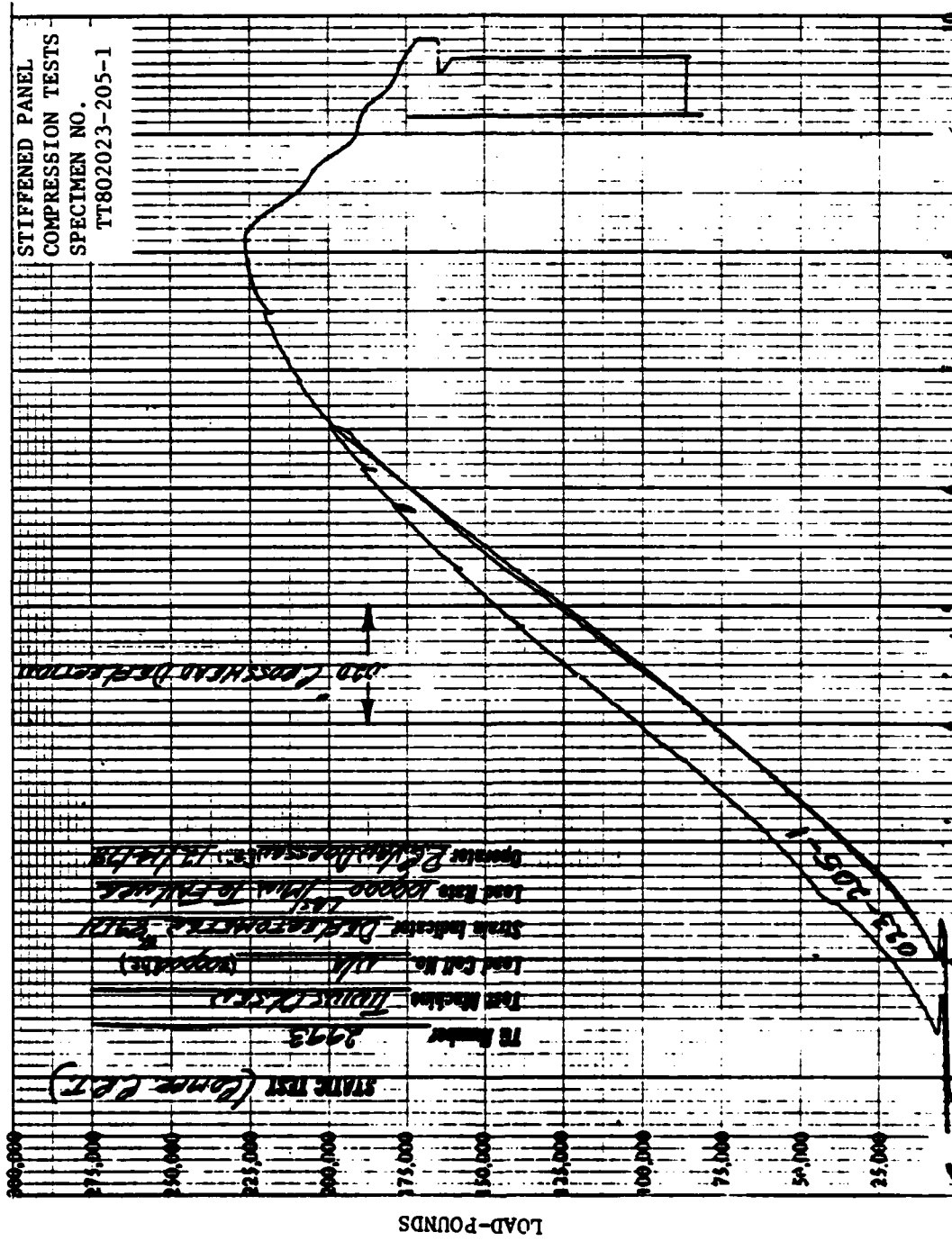
Sheet 4 of 4

1/4/79

PANEL TT802023-203-2

34-08130  
33-02590  
32-00261  
31-01873  
30-06407  
29-00257  
28-16126  
27-01081  
26-00063  
25-02543  
24-07210  
23-00320  
22-01368  
21-00242  
20-00017  
19-05508  
18-00012  
17-00016  
16-00012  
15-00003  
14-00058  
13-00808  
12-00296  
11-00113  
10-00040  
09-00117  
08-00819  
07-00225  
06-00050  
05-00049  
04-00487  
03-00372  
02-00512  
01-00103  
00928190  
001047901

Post Buckling  
e  
0



COMPRESSION TESTS - INCHES x 0.02

SHEET 1 of 4

12/14/78

PANEL TT802023-205-1

34-00000	34-00045	34+00002	34-00201	34-00402
33-00000	33-00014	33-00000	33-00084	33-00188
32-00000	32-00036	32-00005	32-00205	32-00410
31-00001	31-00018	31-00003	31-00233	31-00453
30-00000	30-00015	30+00003	30-00115	30-00260
29-00001	29-00035	29-00005	29-00194	29-00389
28-00000	28-00044	28+00001	28-00251	28-00534
27-00001	27-00016	27-00000	27-00082	27-00117
26-00000	26-00037	26-00003	26-00194	26-00403
25-00000	25-00014	25-00000	25-00096	25-00187
24-00001	24-00047	24-00002	24-00287	24-00593
23-00003	23-00043	23-00004	23-00205	23-00410
22-00002	22-00040	22-00006	22-00202	22-00417
21-00002	21-00037	21-00004	21-00180	21-00366
20-00034	20-00044	20-00000	20-00000	20-00000
19-00009	19-00007	19-00001	19-00001	19-00001
18-00012	18-00009	18-00001	18-00001	18-00001
17-00012	17-00009	17-00001	17-00001	17-00001
16-00012	16-00009	16-00001	16-00001	16-00001
15-00043	15-00043	15-00001	15-00001	15-00001
14-00095	14-00095	14-00000	14-00004	14-00013
13-00072	13-00072	13-00000	13-00005	13-00014
12-00577	12-00577	12-00002	12-00001	12-00003
11-00542	11-00542	11-00001	11-00007	11-00006
10-00451	10-00451	10+00001	10-00000	10-00000
09-00500	09-00500	09+00001	09-00004	09-00016
08-00484	08-00487	08+00001	08-00015	08-00032
07-00594	07-00594	07+00001	07-00010	07-00023
06-00457	06-00457	06-00003	06-00004	06-00015
05-00504	05-00504	05-00004	05-00002	05-00002
04-00045	04-00045	04-00009	04-00004	04-00004
03-00439	03-00439	03-00009	03-00005	03-00013
02-00417	02-00417	02-00011	02-00002	02-00004
01-00577	01-00577	01-00001	01-00004	01-00010
01535120	01535120	0154410	01546300	01547060
01211780	01211780	01211780	01211780	01211780
Strain Gage	Strain Gage	Test Start	20K	40K
Zero Ref.	R Cal	0		
	DEFL. IND.			
	ZERO REF.			
	@5K			

**PANEL TT802023-205-1**

[illegible]

SHEET 3 of 4

12/14/78

PANEL TT802023-205-1

34-02385	34-02641	34-01984	34-03584	34-04780
33-00473	33-00009	33-01222	33-00017	33-00489
32-01770	32-02001	32-00139	32-02004	32-02105
31-02174	31-02301	31-00251	31-02497	31-02749
30-01657	30-02092	30-01062	30-02114	30-02882
29-01682	29-01865	29-00032	29-01871	29-01937
28-02705	28-03109	28-00128	28-03114	28-03388
27-00259	27-00128	27-00161	27-00121	27-00027
26-02106	26-02280	26-00482	26-02493	26-02689
25-00253	25-00088	25-00114	25-00079	25-00079
24-03112	24-03708	24-00023	24-03727	24-04248
23-02338	23-02360	23-00444	23-02397	23-02571
22-01659	22-01748	22-00351	22-01740	22-01794
21-01997	21-02298	21-00769	21-02315	21-02466
20-00007	20-00003	20-00004	20-00003	20-00005
19-00011	19-00010	19-00010	19-00011	19-00011
18-00015	18-00015	18-00015	18-00015	18-00015
17-00013	17-00013	17-00013	17-00013	17-00013
16-00016	16-00016	16-00016	16-00016	16-00016
15-00035	15-00039	15-00013	15-00048	15-00057
14-00159	14-00183	14-00035	14-00013	14-00256
13-00219	13-00252	13-00036	13-00291	13-00344
12-00131	12-00151	12-00026	12-00178	12-00213
11-00011	11-00017	11-00002	11-00023	11-00030
10-00014	10-00017	10-00006	10-00022	10-00027
09-00131	09-00151	09-00032	09-00178	09-00213
08-00235	08-00267	08-00037	08-00308	08-00362
07-00152	07-00171	07-00036	07-00202	07-00235
06-00051	06-00055	06-00014	06-00062	06-00073
05-00081	05-00095	05-00028	05-00112	05-00129
04-00064	04-00079	04-00000	04-00093	04-00115
03-00116	03-00133	03-00015	03-00156	03-00187
02-00068	02-00077	02-00094	02-00095	02-00120
01-00082	01-00091	01-00106	01-00109	01-00127
0155450	0155604	0155818	01602510	01603210
*1211780	*1211780	*1211780	*1211780	*1211780

Perm. Set Check @ 0

200K

190K

180K

200K

210K

SHEET 4 of 4

PANEL TT802023-205-1

34-06932  
33-01391  
32-02213  
31-03134  
30-04427  
29-02010  
28-03776  
27-00131  
26-02988  
25-00484  
24-05548  
23-02783  
22-01846  
21-02594  
20-00604  
19-00011  
18-00016  
17-00014  
16-00014  
15-00078  
14-00323  
13-00424  
12-00272  
11-00047  
10-00037  
09-00266  
08-00457  
07-00290  
06-00086  
05-00154  
04-00153  
03-00235  
02-00166  
01-00154  
0160400  
\*1211780

220K

34-15545  
33-07091  
32-01080  
31-03737  
30-05865  
29-01927  
28-05270  
27-00368  
26-02502  
25-07434  
24-18862  
23-02801  
22-01942  
21-01688  
20-00002  
19-00011  
18-00015  
17-00015  
16-00015  
15-00149  
14-00534  
13-00459  
12-00429  
11-00089  
10-00041  
09-00390  
08-00754  
07-00389  
06-00104  
05-00213  
04-00274  
03-00373  
02-00337  
01-00196  
01604470  
\*1211780

227K

Post-Buckling  
@ 0

12/14/73

34-00688  
33-13969  
32-02984  
31-01802  
30-10149  
29-00207  
28-10563  
27-13827  
26-01270  
25-02557  
24-00000  
23-09427  
22-01607  
21-02646  
20-00010  
19-00011  
18-00016  
17-00014  
16-00017  
15-00499  
14-00600  
13-01120  
12-01155  
11-00696  
10-00134  
09-00665  
08-00587  
07-00210  
06-00011  
05-00515  
04-01272  
03-01275  
02-00793  
01-00011  
01607010  
\*1211780

Post-Buckling  
@ 91K





Sheet 1 of 4

12/15/78

PANEL TT802023-205-2

34-00001  
33-00001  
32-00001  
31-00001  
30-00001  
29-00001  
28-00001  
27-00001  
26-00001  
25-00001  
24-00001  
23-00001  
22-00001  
21-00001  
0142420  
01215780

Strain Gage  
Zero Ref.

DEFL. IND.  
ZERO REF.  
@ 5K

34-01418  
33-01419  
32-01420  
31-01417  
30-01421  
29-01414  
28-01417  
27-01420  
26-01420  
25-01417  
24-01414  
23-01421  
22-01419  
21-01421  
0142420  
01215780

Strain Gage  
R Cal

34-00002  
33-00000  
32-00009  
31-00004  
30-00001  
29-00002  
28-00002  
27-00001  
26-00001  
25-00003  
24-00007  
23-00014  
22-00004  
21-00004  
20-00002  
19-00004  
18-00004  
17-00002  
16-00002  
15-00001  
14-00001  
13-00001  
12-00000  
11-00000  
10-00000  
09-00001  
08-00004  
07-00001  
06-00004  
05-00004  
04-00004  
03-00004  
02-00001  
01-00004  
0142420  
01215780

Test Start  
0

34-00023  
33-00007  
32-00238  
31-00178  
30-00157  
29-00170  
28-00277  
27-00140  
26-00154  
25-00075  
24-00283  
23-00244  
22-00194  
21-00178  
20-00027  
19-00007  
18-00007  
17-00004  
16-00004  
15-00001  
14-00001  
13-00000  
12-00000  
11-00007  
10-00000  
09-00004  
08-00014  
07-00014  
06-00006  
05-00000  
04-00004  
03-00000  
02-00002  
01-00004  
0142420  
01215780

20K

34-00438  
33-00238  
32-00444  
31-00344  
30-00347  
29-00363  
28-00460  
27-00266  
26-00380  
25-00157  
24-00597  
23-00465  
22-00407  
21-00359  
20-00027  
19-00007  
18-00007  
17-00004  
16-00004  
15-00002  
14-00010  
13-00013  
12-00000  
11-00006  
10-00001  
09-00021  
08-00032  
07-00026  
06-00013  
05-00002  
04-00002  
03-00013  
02-00003  
01-00009  
0142420  
01215780

40K

34-00A72  
33-00395  
32-00A80  
31-00414  
30-00441  
29-00544  
28-00A55  
27-00382  
26-00431  
25-00227  
24-00912  
23-00A73  
22-00A21  
21-00531  
20-00024  
19-00004  
18-00004  
17-00004  
16-00004  
15-00005  
14-00019  
13-00027  
12-00009  
11-00004  
10-00003  
09-00030  
08-00047  
07-00035  
06-00014  
05-00000  
04-00013  
03-00022  
02-00012  
01-00013  
0142420  
01215780

60K

PANEL TT802023-205-2			Sheet 2 of 4		
80K	100K	120K	160K	180K	
34-00048	34-01222	34-01434	34-02325	34-03044	
33-00462	33-00724	33-00879	33-01050	33-00974	
32-00034	32-01021	32-01211	32-01408	32-01405	
31-00474	31-00793	31-00850	31-00827	31-00806	
30-00084	30-00084	30-01227	30-01495	30-01733	
29-00733	29-00084	29-01042	29-01257	29-01420	
28-01169	28-01491	28-01799	28-02136	28-02465	
27-00494	27-00584	27-00659	27-00703	27-00713	
26-00729	26-00624	26-01130	26-01364	26-01609	
25-00284	25-00416	25-00630	25-00805	25-00924	
24-01341	24-01563	24-01899	24-02244	24-02591	
23-00087	23-01094	23-01324	23-01585	23-01851	
22-00051	22-01077	22-01287	22-01462	22-01587	
21-00700	21-00844	21-01153	21-01470	21-01769	
20-00023	20-00024	20-00024	20-00024	20-00024	
19-00002	19-00002	19-00002	19-00002	19-00002	
18-00013	18-00013	18-00013	18-00013	18-00013	
17-00010	17-00010	17-00010	17-00010	17-00010	
16-00013	16-00013	16-00013	16-00013	16-00013	
15-00010	15-00010	15-00013	15-00013	15-00013	
14-00024	14-00024	14-00057	14-00074	14-00094	
13-00040	13-00058	13-00080	13-00110	13-00141	
12-00017	12-00026	12-00039	12-00053	12-00072	
11-00007	11-00006	11-00006	11-00006	11-00006	
10-00003	10-00004	10-00011	10-00013	10-00017	
09-00044	09-00057	09-00072	09-00093	09-00114	
08-00064	08-00086	08-00113	08-00145	08-00177	
07-00060	07-00060	07-00075	07-00093	07-00115	
06-00014	06-00023	06-00027	06-00032	06-00036	
05-00004	05-00009	05-00017	05-00030	05-00040	
04-00017	04-00024	04-00027	04-00036	04-00040	
03-00032	03-00041	03-00054	03-00067	03-00085	
02-00014	02-00026	02-00034	02-00043	02-00051	
01-00014	01-00027	01-00034	01-00050	01-00065	
01437580	01437530	01438510	01439440	01440140	
01215780	01215780	01215780	01215780	01215780	

Sheet 3 of 4

12/15/78

PANEL TT802023-205-2

34-08547	34-05736	34-06035	34-07783	34-10984
33-00667	33-00040	33+02211	33+00104	33+00962
32-02686	32-02230	32-00284	32-02399	32-00297
31-00529	31-00380	31+02561	31-00073	31-00264
30-02664	30-03178	30-02063	30-08078	30-05434
29-01722	29-01774	29+00181	29-01755	24-01627
28-03304	28-03593	28-04017	28-04064	28-05191
27-00620	27-00570	27-00481	27-00479	27-00182
26-02225	26-02402	26-02591	26-02407	26-02624
25-00624	25+00148	25+00346	25+00376	25+01019
24-03476	24-03791	24-03307	24-04395	24-06104
23-02534	23-02731	23-02944	23-02968	23-03220
22-01747	22-01782	22+00397	22-01825	22-01911
21-02472	21-02434	21-02776	21-02788	21-02818
20-06623	20-06027	20-06624	20-00024	20-00624
19-00002	19+00004	19+00606	19+00007	19+00006
18-00001	18+00611	18+00011	18+00010	18+00011
17-00000	17+00604	17+00004	17+00009	17+00004
16-00000	16+00011	16+00011	16+00011	16+00011
15-00050	15+00062	15-00026	15+00066	15+00053
14-00174	14+00205	14+00051	14+00261	14+00357
13+00241	13+00287	13+00058	13+00354	13+00461
12+00133	12+00161	12+00044	12+00207	12+00263
11+00004	11+00011	11+00004	11+00021	11+00029
10+00038	10+00042	10+00023	10+00056	10+00077
09+00197	09+00230	09+00275	09+00280	09+00382
08+00288	08+00335	08+00397	08+00401	08+00532
07+00181	07+00213	07+00253	07+00253	07+00320
06+00051	06+00058	06+00070	06+00067	06+00084
05+00086	05-00102	05-00124	05-00131	05-00145
04+00064	04+00079	04+00104	04+00106	04+00164
03+00138	03+00161	03+00153	03+00197	03+00268
02+00087	02+00105	02+00136	02+00141	02+00209
01+00120	01-00137	01-00160	01-00161	01-00207
01425150	01425500	014240201	01427430	01428150
01215780	01215780	012157801	01215780	01215780

Perm. Set Check  
@ 0

220K

210K

200K

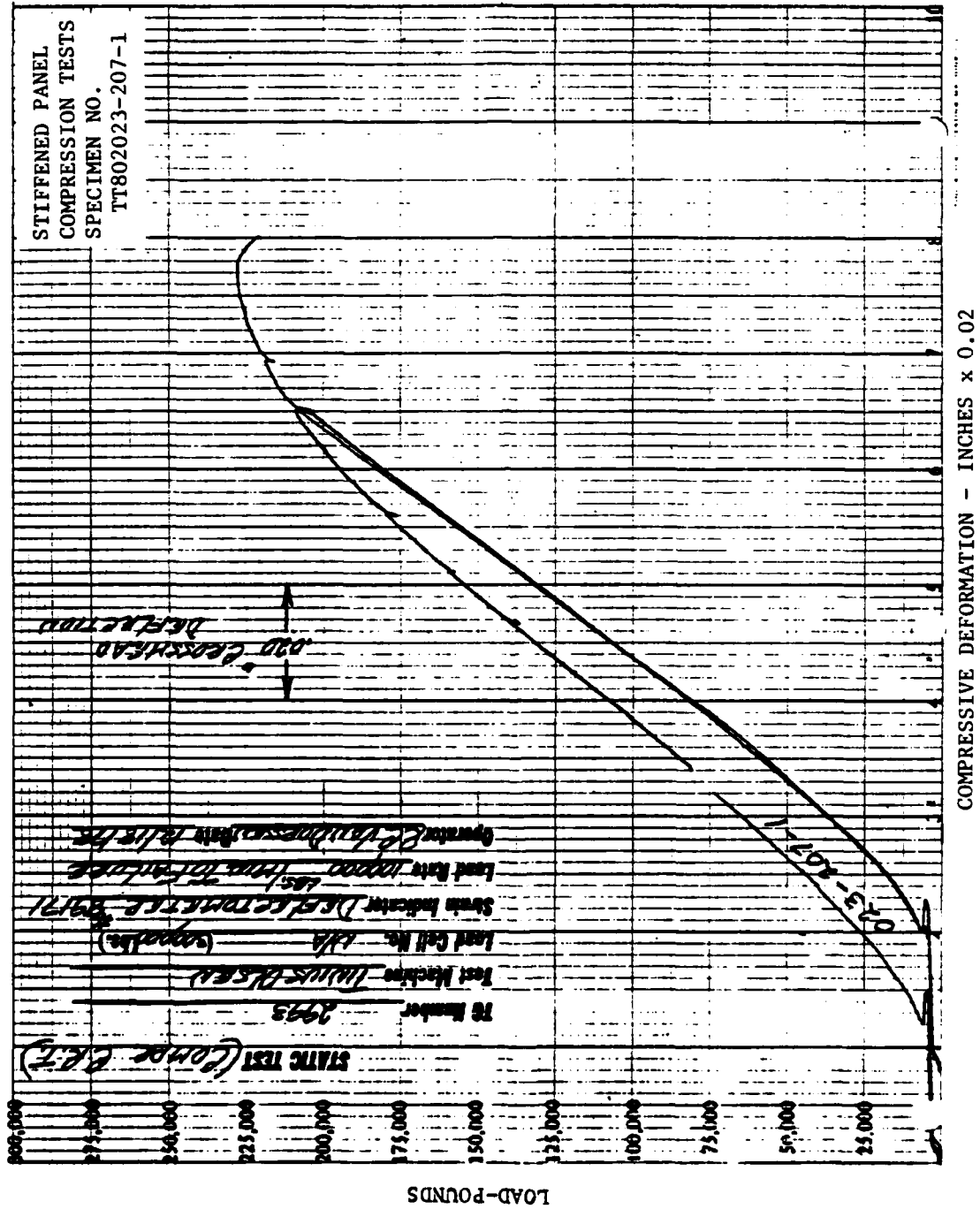
220K

230K

12/15/78

PANEL TT802023-205-2

34-14185	34-14265	34-12484
33-02560	33-03058	33-04574
32-01707	32-01568	32-00349
31-01492	31-01648	31-03501
30-06402	30-02514	30-05651
29-00567	29-00590	29-00552
28-24125	28-24955	28-17787
27-00777	27-00825	27-00519
26-00838	26-00161	26-00211
25-01762	25-02121	25-02114
24-00000	24-00000	24-00000
23-01073	23-00584	23-00096
22-01890	22-02003	22-00860
21-00802	21-01602	21-00108
20-00329	20-00004	20-00000
19-00006	19-00000	19-00000
18-00010	18-00012	18-00013
17-00009	17-00010	17-00010
16-00011	16-00013	16-00013
15-00126	15-00102	15-00072
14-00495	14-00431	14-00250
13-00679	13-01572	13-01135
12-00297	12-00140	12-00540
11-00531	11-00006	11-00505
10-00100	10-00078	10-00060
09-00511	09-00544	09-00324
08-00711	08-01495	08-01057
07-00364	07-00172	07-00063
06-00088	06-00085	06-00049
05-00195	05-00361	05-00275
04-00257	04-01244	04-00782
03-00362	03-00871	03-00519
02-00314	02-01250	02-00789
01-00234	01-00321	01-00256
0148300	0145040	01451450
*1215780	*1215780	*1215780
232K	Post Buckling @ 135.5K	Post Buckling @ 0



Sheet 1 of 4

12/18/78

PANEL TT802023-207-1

34-00003	34-01423	34-00066	34-00000	34-00256	34-00539
33-00004	33-01425	33-00017	33-00005	33-00058	33-00122
32-00001	32-01427	32-00030	32-00002	32-00188	32-00376
31-00006	31-01427	31-00028	31-00003	31-00159	31-00314
30-00003	30-01432	30-00039	30-00002	30-00213	30-00413
29-00006	29-01424	29-00037	29-00009	29-00196	29-00491
28-00001	28-01420	28-00045	28-00000	28-00242	28-00527
27-00000	27-01419	27-00026	27-00001	27-00127	27-00272
26-00002	26-01417	26-00036	26-00003	26-00189	26-00353
25-00001	25-01417	25-00017	25-00000	25-00100	25-00161
24-00002	24-01423	24-00048	24-00002	24-00296	24-00593
23-00002	23-01416	23-00040	23-00006	23-00200	23-00405
22-00002	22-01417	22-00036	22-00003	22-00196	22-00404
21-00002	21-01416	21-00035	21-00004	21-00181	21-00365
20-00034	20-00029	20-00063	20-00031	20-00031	20-00031
19-00004	19-00007	19-00045	19-00004	19-00004	19-00004
18-00011	18-00013	18-00011	18-00011	18-00011	18-00011
17-00004	17-00010	17-00012	17-00012	17-00012	17-00012
16-00011	16-00019	16-00011	16-00011	16-00011	16-00011
15-00051	15-00051	15-00001	15-00000	15-00001	15-00001
14-00362	14-00098	14-00000	14-00000	14-00005	14-00011
13-00322	13-00095	13-00000	13-00001	13-00006	13-00015
12-00490	12-00090	12-00000	12-00000	12-00002	12-00009
11-00684	11-00006	11-00000	11-00001	11-00000	11-00001
10-00529	10-00072	10-00001	10-00001	10-00001	10-00001
09-00390	09-00085	09-00001	09-00001	09-00001	09-00001
08-00406	08-00096	08-00000	08-00000	08-00014	08-00032
07-00379	07-00081	07-00001	07-00003	07-00006	07-00018
06-00686	06-01003	06-00002	06-00001	06-00003	06-00003
05-00689	05-00025	05-00000	05-00007	05-00001	05-00001
04-00686	04-00074	04-00001	04-00010	04-00002	04-00004
03-00577	03-01013	03-00002	03-00011	03-00005	03-00016
02-00633	02-00025	02-00001	02-00012	02-00003	02-00012
01-00073	01-01072	01-00000	01-00010	01-00000	01-00002
01531250	01531300	01541120	01542280	01543420	01544090
01218780	01218780	01218780	01218780	01218780	01218780

Strain Gage  
Zero Ref.Strain Gage  
R CalDEFL. IND.  
ZERO REF.  
@ 5KTest Start  
0

20K

40K

Sheet 2 of 4

12/18/78

PANEL TT802023-207-1

34-00649	34-01198	34-02025	34-02545	34-03182
33-00199	33-00279	33-00405	33-00442	33-00414
32-00559	32-00740	32-01072	32-01233	32-01394
31-00476	31-00607	31-00735	31-00700	31-00613
30-00628	30-00863	30-01382	30-01764	30-02251
29-00560	29-00765	29-00933	29-01104	29-01434
28-00630	28-01152	28-01472	28-01267	28-02551
27-00417	27-00557	27-00785	27-00870	27-00927
26-00561	26-00782	26-01175	26-01392	26-01630
25-00251	25-00309	25-00363	25-00355	25-00314
24-00692	24-01199	24-01792	24-02093	24-02404
23-00609	23-00616	23-01238	23-01473	23-01733
22-00619	22-00854	22-01318	22-01495	22-01627
21-00546	21-00724	21-01134	21-01393	21-01684
20-00633	20-00732	20-00831	20-00931	20-00933
19-00666	19-00706	19-00806	19-00906	19-00905
18-00611	18-00711	18-00811	18-00911	18-00911
17-00608	17-00708	17-00808	17-00908	17-00908
16-00611	16-00711	16-00811	16-00911	16-00911
15-00609	15-00709	15-00812	15-00918	15-00926
14-00618	14-00728	14-00854	14-00967	14-00989
13-00633	13-00747	13-00887	13-01112	13-01145
12-00617	12-00726	12-00838	12-00970	12-00993
11-00662	11-00702	11-00805	11-00914	11-00918
10-00600	10-00703	10-00812	10-00917	10-00921
09-00631	09-00747	09-00879	09-00910	09-00930
08-00652	08-00773	08-00812	08-00915	08-00920
07-00630	07-00745	07-00880	07-00910	07-00934
06-00607	06-00711	06-00821	06-00930	06-00935
05-00601	05-00706	05-00818	05-00931	05-00944
04-00610	04-00716	04-00823	04-00930	04-00939
03-00625	03-00734	03-00861	03-00975	03-00993
02-00617	02-00725	02-00839	02-00948	02-00962
01-00610	01-00715	01-00832	01-00946	01-00965
01544390	01545210	01547220	01548030	01549050
01218780	01218780	01218780	01218780	01218780
	80K	100K	140K	160K
60K				



Sheet 3 of 4

12/18/78

TT802023-207-1

PANEL

34-08184	34-05035	34-06183	34-08166	34-05460	34-08292
33-00246	33-00072	33-00188	33-00661	33-00462	33-00621
32-01551	32-01621	32-01688	32-01740	32-00083	32-01729
31-00804	31-00234	31-00607	31-00423	31-02421	31-00480
30-03034	30-03519	30-03858	30-03560	30-02556	30-03174
29-01604	29-01687	29-01767	29-01835	29-00040	29-01661
28-02993	28-03240	28-03537	28-03525	26-00112	28-03961
27-00944	27-00943	27-00923	27-00904	27-00026	27-00904
26-01906	26-02048	26-02205	26-02370	26-00411	26-02379
25-00230	25-00177	25-00100	25-00008	25-00166	25-00001
24-02752	24-02948	24-03171	24-03437	24-00033	24-03450
23-02039	23-02194	23-02376	23-02590	23-00549	23-02603
22-01719	22-01764	22-01776	22-01760	22-00321	22-01777
21-02029	21-02175	21-02370	21-02550	21-00958	21-02565
20-00033	20-00032	20-00034	20-00034	20-00034	20-00034
19-00006	19-00006	19-00006	19-00006	19-00005	19-00005
18-00011	18-00011	18-00011	18-00011	18-00011	18-00011
17-00004	17-00004	17-00004	17-00004	17-00004	17-00004
16-00012	16-00012	16-00012	16-00012	16-00012	16-00012
15-00035	15-00040	15-00049	15-00062	15-00026	15-00062
14-00116	14-00134	14-00157	14-00139	14-00042	14-00192
13-00190	13-00217	13-00253	13-00307	13-00052	13-00311
12-00121	12-00142	12-00164	12-00204	12-00048	12-00211
11-00027	11-00034	11-00034	11-00051	11-00025	11-00056
10-00030	10-00038	10-00044	10-00057	10-00022	10-00056
09-00166	09-00189	09-00216	09-00255	09-00057	09-00254
08-00252	08-00283	08-00323	08-00377	08-00056	08-00310
07-00171	07-00193	07-00220	07-00265	07-00045	07-00265
06-00043	06-00051	06-00056	06-00070	06-00018	06-00066
05-00062	05-00072	05-00085	05-00105	05-00031	05-00110
04-00047	04-00057	04-00069	04-00088	04-00001	04-00088
03-00119	03-00133	03-00151	03-00182	03-00028	03-00183
02-00079	02-00088	02-00101	02-00128	02-00008	02-00128
01-00087	01-00098	01-00115	01-00139	01-00032	01-00137
01549520	01550440	01551060	01551370	01552480	01555320
01218780	01218780	01218780	01218780	01218780	01218780

180K

190K

200K

210K

210K

Perm. Set Check  
@ 0

12/18/78

PANEL TT802023-207-1

34-07053  
33-04367  
32-01454  
31-05575  
30-01560  
29-00778  
28-16038  
27-06330  
26-01809  
25-00081  
24-05294  
23-02637  
22-01611  
21-01530  
20-00029  
19-00106  
18-00012  
17-00010  
16-00013  
15-00102  
14-00221  
13-00379  
12-00256  
11-00071  
10-00071  
09-00309  
08-00050  
07-00317  
06-00064  
05-00128  
04-00119  
03-00225  
02-00164  
01-00160  
01556140  
01218780

220K

34-05503  
33-04650  
32-00220  
31-05585  
30-01376  
29-00972  
28-16996  
27-03236  
26-00102  
25-00221  
24-00665  
23-00654  
22-00024  
21-00426  
20-00624  
19-00007  
18-00012  
17-00009  
16-00013  
15-00053  
14-00066  
13-00039  
12-00203  
11-00061  
10-00173  
09-00384  
08-00428  
07-00490  
06-00207  
05-00128  
04-00484  
03-00332  
02-00236  
01-00097  
01558290  
01218780

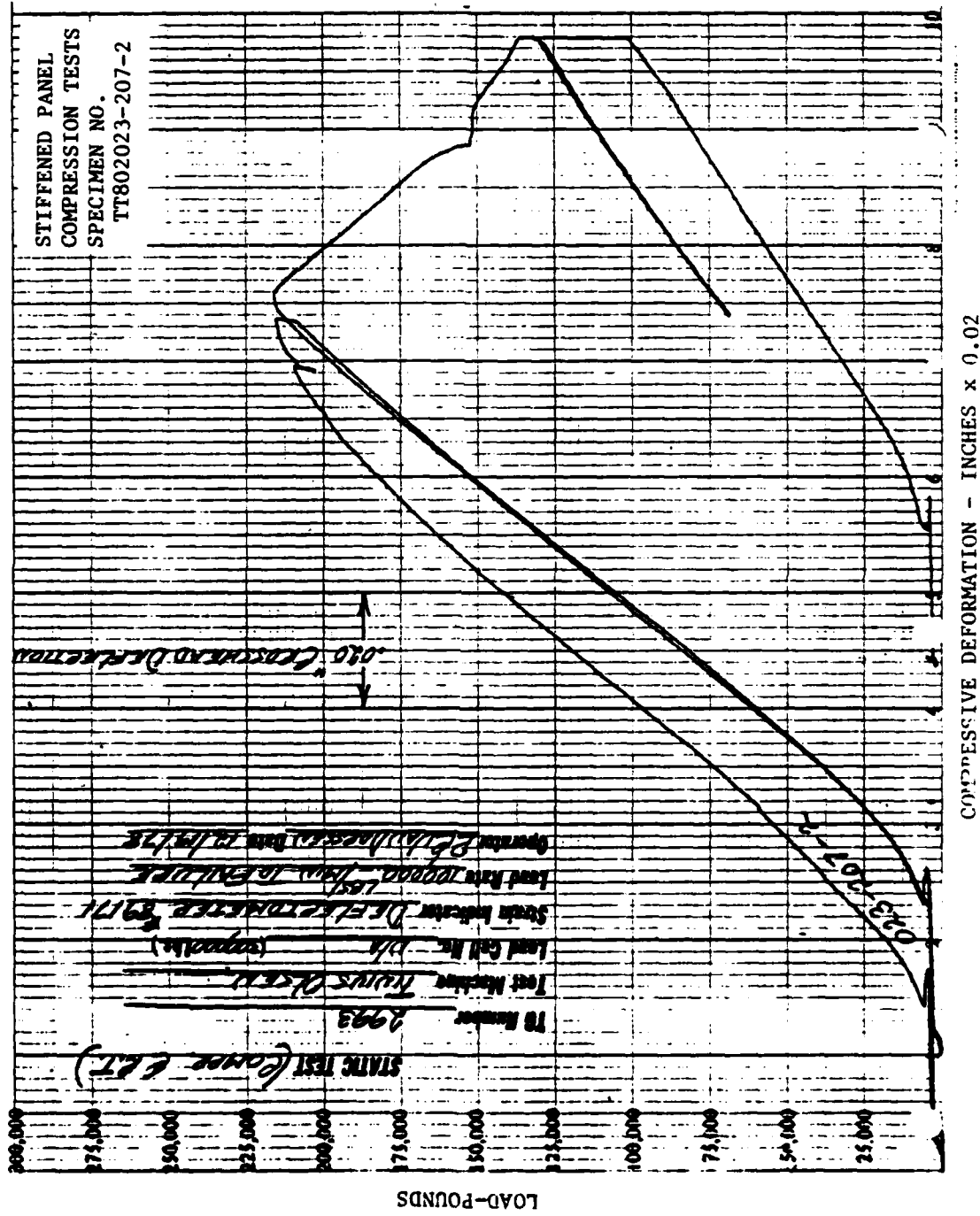
Post-Buckling  
@ 0

228.75K  
(BUCKLING  
LOAD)

34-06523  
33-04598  
32-01374  
31-01851  
30-01390  
29-00379  
28-16187  
27-09511  
26-00007  
25-01211  
24-04350  
23-02219  
22-01261  
21-00450  
20-00024  
19-00007  
18-00012  
17-00009  
16-00013  
15-00072  
14-00152  
13-01439  
12-00434  
11-00079  
10-00272  
09-00781  
08-01031  
07-01060  
06-00376  
05-00229  
04-01041  
03-00723  
02-00658  
01-00188  
01600490  
01218780

171.25K

(POST BUCKLING LOAD)



12/19/78 Sheet 1 of 4

PANEL TT802023-207-2

34-00002	34-01429	34-00075	34-00004	34-00279	34-00515
33-00002	33-01427	33-00033	33-00004	33-00141	33-00283
32-00001	32-01426	32-00029	32-00004	32-00170	32-00360
31-00001	31-01428	31-00040	31-00002	31-00188	31-00405
30-00001	30-01428	30-00024	30-00002	30-00111	30-00249
29-00002	29-01429	29-00035	29-00006	29-00213	29-00425
28-00002	28-01426	28-00060	28-00003	28-00321	28-00647
27-00001	27-01428	27-00023	27-00000	27-00117	27-00213
26-00001	26-01427	26-00037	26-00005	26-00180	26-00378
25-00002	25-01427	25-00011	25-00000	25-00060	25-00132
24-00002	24-01428	24-00047	24-00001	24-00267	24-00595
23-00001	23-01428	23-00041	23-00005	23-00208	23-00414
22-00001	22-01427	22-00037	22-00004	22-00190	22-006397
21-00002	21-01426	21-00037	21-00006	21-00180	21-006367
20-00004	20-00008	20-00022	20-00021	20-00027	20-00019
19-00004	19-00004	19-00006	19-00007	19-00006	19-00007
18-00004	18-00004	18-00012	18-00011	18-00012	18-00011
17-00004	17-00007	17-00009	17-00009	17-00009	17-00009
16-00004	16-00010	16-00013	16-00012	16-00012	16-00012
15-00560	15-00850	15-00000	15-00001	15-00004	15-00003
14-00039	14-00445	14-00001	14-00001	14-00004	14-00019
13-00005	13-00071	13-00001	13-00001	13-00011	13-00025
12-00417	12-00452	12-00000	12-00000	12-00005	12-00014
11-00713	11-00899	11-00001	11-00001	11-00000	11-00000
10-00440	10-00867	10-00000	10-00000	10-00000	10-00000
09-00364	09-00948	09-00000	09-00001	09-00009	09-00018
08-00321	08-00948	08-00000	08-00002	08-00009	08-00026
07-00358	07-00877	07-00000	07-00000	07-00008	07-00018
06-00615	06-01000	06-00000	06-00000	06-00000	06-00000
05-00338	05-00943	05-00000	05-00009	05-00003	05-00007
04-00394	04-00967	04-00001	04-00010	04-00004	04-00006
03-00254	03-01002	03-00000	03-00010	03-00005	03-00013
02-00350	02-00974	02-00000	02-00008	02-00003	02-00008
01-00464	01-01074	01-00001	01-00009	01-00004	01-00007
01302450	01302500	01309480	01311320	01312300	01312560
*1219780	*1219780	*1219780	*1219780	*1219780	*1219780

Strain Gage  
Zero Ref.Strain Gage  
R CalDEFL. IND.  
ZERO REF.Test Start  
0

20K

40K

Sheet 2 of 4

12/19/78

PANEL TT802023-207-2

34-00740	34-01192	34-01426	34-01690	34-01971
33-00432	33-00752	33-00897	33-00996	33-01040
32-00537	32-00902	32-01077	32-01246	32-01410
31-00633	31-00984	31-01112	31-01299	31-01486
30-00690	30-00677	30-00829	30-00953	30-01192
29-00620	29-01015	29-01206	29-01396	29-01579
28-00971	28-01673	28-02043	28-02435	28-02862
27-00292	27-00356	27-00409	27-00490	27-00526
26-00572	26-00777	26-00978	26-01193	26-01420
25-00192	25-00240	25-00265	25-00281	25-00313
24-00730	24-01295	24-01662	24-02047	24-02446
23-00611	23-00613	23-01006	23-01217	23-01440
22-00607	22-00844	22-01085	22-01304	22-01548
21-00545	21-00744	21-00973	21-01238	21-01478
20-00211	20-00621	20-00920	20-01238	20-01539
19-00004	19-00007	19-00017	19-00066	19-00067
18-00011	18-00011	18-00011	18-00011	18-00011
17-00011	17-00011	17-00011	17-00011	17-00011
16-00011	16-00011	16-00011	16-00011	16-00011
15-00007	15-00007	15-00012	15-00019	15-00023
14-00027	14-00041	14-00054	14-00053	14-00116
13-00043	13-00066	13-00093	13-00119	13-00201
12-00027	12-00041	12-00054	12-00072	12-00119
11-00001	11-00002	11-00004	11-00005	11-00006
10-00000	10-00000	10-00001	10-00002	10-00006
09-00027	09-00040	09-00053	09-00069	09-00110
08-00049	08-00072	08-00099	08-00166	08-00211
07-00031	07-00045	07-00060	07-00103	07-00131
06-00000	06-00005	06-00029	06-00062	06-00067
05-00014	05-00021	05-00030	05-00052	05-00069
04-00016	04-00021	04-00030	04-00050	04-00065
03-00026	03-00040	03-00053	03-00085	03-00107
02-00017	02-00022	02-00031	02-00049	02-00062
01-00006	01-00014	01-00022	01-00045	01-00064
01313230	01313540	01314180	01315130	01316230
*1219780	*1219780	*1219780	*1219780	*1219780
60K	80K	120K	140K	160K

PANEL TT802023-207-2		12/19/78	Sheet 3 of 4
180K	190K	200K	210K
34-02306	34-02518	34-02844	34-03341
33-01040	33-01002	33-00931	33-00832
32-01584	32-01664	32-01743	32-01807
31-01617	31-01696	31-01793	31-01944
30-01424	30-01506	30-01663	30-01843
29-01777	29-01872	29-01970	29-02064
28-03403	28-03729	28-04175	28-04944
27-00194	27-00094	27-00046	27-00299
26-01457	26-02109	26-02281	26-02450
25-00035	25-00151	25-00345	25-00731
24-03439	24-03776	24-04317	24-05386
23-01976	23-02128	23-02301	23-02472
22-01604	22-01624	22-01626	22-01649
21-02230	21-02380	21-02550	21-02623
20-00024	20-00023	20-00023	20-00024
19-00006	19-00007	19-00007	19-00006
18-00011	18-00011	18-00011	18-00011
17-00009	17-00009	17-00009	17-00009
16-00011	16-00012	16-00012	16-00012
15-00030	15-00034	15-00039	15-00047
14-00152	14-00174	14-00205	14-00245
13-00258	13-00294	13-00346	13-00427
12-00158	12-00180	12-00217	12-00262
11-00008	11-00010	11-00013	11-00015
10-00012	10-00011	10-00016	10-00015
09-00142	09-00163	09-00191	09-00226
08-00273	08-00314	08-00368	08-00458
07-00175	07-00199	07-00233	07-00284
06-00022	06-00027	06-00031	06-00040
05-00094	05-00110	05-00130	05-00154
04-00084	04-00101	04-00123	04-00161
03-00139	03-00156	03-00183	03-00232
02-00080	02-00096	02-00115	02-00155
01-00086	01-00105	01-00123	01-00146
01316580	01317340	01317560	01318190
*1219780	*1219780	*1219780	*1219780
180K		200K	
190K		210K	
Post Buckling		Post Buckling	
0		0	
After 216.5K		After 216.5K	
217K		217K	

TER073

Sheet 4 of 4

12/19/78

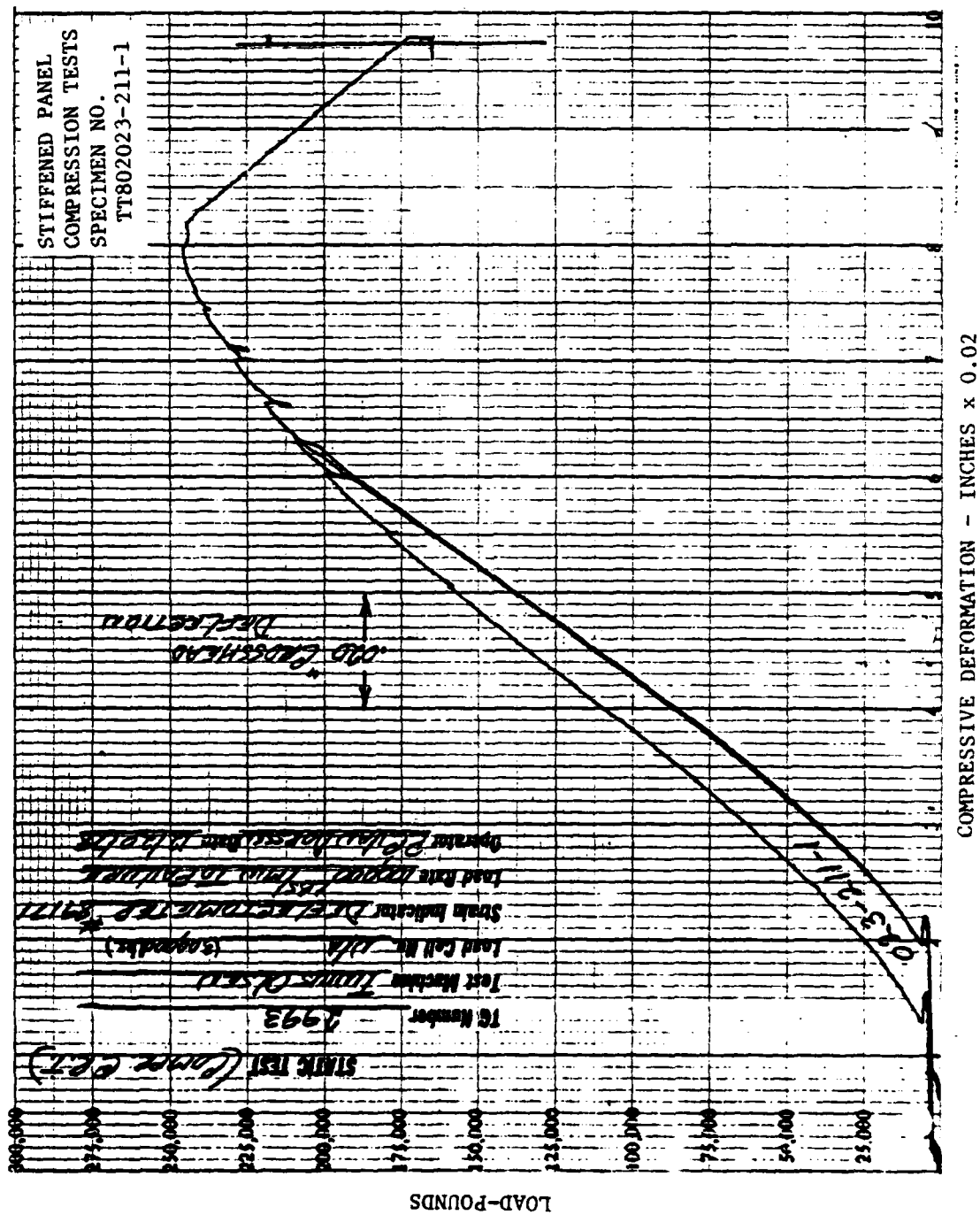
PANEL TT802023-207-2

34-03579	34-05861
33-61428	33-00861
32-00099	32-01021
31-61248	31-00268
30-01312	30-02813
29-00064	29-01310
28-17390	28-23764
27-62340	27-02373
26-00664	26-00696
25-61617	25-02604
24-09368	24-21129
23-66227	23-00200
22-00702	22-01420
21-60126	21-01619
20-60006	20-00000
19-00009	19-00009
18-60013	18-00014
17-60011	17-00012
16-00014	16-00015
15-00017	15-00029
14-00054	14-00178
13-01075	13-01523
12-00194	12-00384
11-66665	11-00006
10-00002	10-00002
09-60075	09-00204
08-01090	08-01546
07-00206	07-00417
06-00023	06-00049
05-00249	05-00285
04-60765	04-01232
03-60491	03-00448
02-60732	02-01189
01-60287	01-00279
01326220	01325130
01219780	01219780

Post-Buckling  
@ 0

Post Buckling  
@

134.25K





Sheet 1 of 4

12/20/78

PANEL TT802023-211-1

34-000001	34+01429	34-000046	34-000001	34-00205	34-00449
33-000001	33+01428	33-000023	33-000001	33-00094	33-00183
32-000001	32+01427	32-000034	32-000002	32-00176	32-00356
31-000002	31+01429	31-000018	31-000005	31-00063	31-00120
30-000001	30+01429	30-000086	30-000013	30-00341	30-00634
29-000002	29+01428	29-000033	29-000008	29-00187	29-00387
28-000002	28+01425	28-000030	28-000000	28-00157	28-00334
27-000001	27+01428	27-000018	27-000008	27-00141	27-00332
26-000000	26+01428	26-000034	26-000003	26-00184	26-00382
25-000000	25+01429	25-000039	25-000003	25-00209	25-00404
24-000000	24+01428	24-000038	24-000005	24-00215	24-00428
23-000000	23+01429	23-000040	23-000010	23-00193	23-00389
22-000001	22+01428	22-000039	22-000006	22-00192	22-00394
21-000000	21+01428	21-000038	21-000005	21-00194	21-00401
20-000006	20-000032	20-000019	20-000010	20-000011	20-000011
19-000013	19-000019	19-000019	19-000011	19-000011	19-000011
18-000017	18-000014	18-000015	18-000015	18-000015	18-000016
17-000015	17-000012	17-000012	17-000013	17-000013	17-000013
16-000016	16-000016	16-000014	16-000016	16-000016	16-000015
15-000064	15-000061	15-000000	15-000000	15-000000	15-000001
14-000564	14-000554	14-000001	14-000001	14-000001	14-000001
13-000352	13-000926	13-000001	13-000001	13-000004	13-000003
12-000440	12-000956	12-000000	12-000000	12-000001	12-000001
11-000632	11-000908	11-000001	11-000002	11-000005	11-000006
10-000748	10-000871	10-000001	10-000001	10-000001	10-000001
09-000413	09-000843	09-000000	09-000000	09-000001	09-000001
08-000864	08-000922	08-000000	08-000000	08-000002	08-000004
07-000424	07-000892	07-000000	07-000001	07-000004	07-000004
06-000507	06-001004	06-000001	06-000002	06-000002	06-000000
05-000269	05-000926	05-000000	05-000010	05-000001	05-000004
04-000339	04-000944	04-000000	04-000011	04-000000	04-000003
03-000285	03-000987	03-000000	03-000009	03-000000	03-000004
02-000255	02-000958	02-000000	02-000010	02-000002	02-000001
01-000471	01-001070	01-000001	01-000010	01-000002	01-000001
01471560	01422040	01430530	01432560	014340201	01434460
01220780	01220780	01220780	01220780	01220780	01220780

40K

20K

Test Start  
0DEFL. IND.  
ZERO REF.  
@ 5KStrain Gage  
R CalStrain Gage  
Zero Ref.

Sheet 2 of 4

12/20/78

PANEL TT802023-211-1

34-00716	34-01007	34-01359	34-01793	34-02230	34-02685
33-00273	33-00356	33-00394	33-00387	33-00351	33-00267
32-00538	32-00718	32-00689	32-01054	32-01220	32-01391
31-00177	31-00230	31-00269	31-00261	31-0216	31-00145
30-00525	30-01222	30-01549	30-01972	30-02557	30-03270
29-00581	29-00773	29-00957	29-01136	29-01317	29-01497
28-00512	28-00684	28-00641	28-00991	28-01135	28-01260
27-00532	27-00741	27-00933	27-01125	27-01368	27-01492
26-00591	26-00817	26-01045	26-01272	26-01509	26-01744
25-00591	25-00776	25-00955	25-01128	25-01294	25-01454
24-00642	24-00844	24-01034	24-01217	24-01398	24-01562
23-00580	23-00772	23-00959	23-01141	23-01330	23-01527
22-00592	22-00790	22-00981	22-01172	22-01362	22-01540
21-00607	21-00819	21-01030	21-01247	21-01475	21-01707
<del>20-00607</del>	<del>20-00607</del>	<del>20-00607</del>	<del>20-00607</del>	<del>20-00607</del>	<del>20-00607</del>
19-00612	19-00611	19-00610	19-00611	19-00611	19-00611
18-00615	18-00615	18-00615	18-00615	18-00615	18-00615
17-00613	17-00613	17-00613	17-00613	17-00613	17-00613
16-00615	16-00615	16-00615	16-00615	16-00615	16-00615
15-00601	15-00600	15-00600	15-00602	15-00604	15-00604
14-00601	14-00601	14-00601	14-00600	14-00603	14-00603
13-00603	13-00603	13-00603	13-00603	13-00603	13-00606
12-00603	12-00604	12-00608	12-00613	12-00621	12-00627
11-00605	11-00605	11-00605	11-00606	11-00605	11-00602
10-00601	10-00601	10-00601	10-00601	10-00602	10-00602
09-00601	09-00601	09-00601	09-00600	09-00601	09-00600
08-00604	08-00604	08-00605	08-00608	08-00608	08-00608
07-00608	07-00613	07-00616	07-00619	07-00624	07-00631
06-00607	06-00607	06-00608	06-00612	06-00616	06-00621
05-00603	05-00603	05-00604	05-00603	05-00601	05-00601
04-00603	04-00603	04-00604	04-00605	04-00604	04-00604
03-00609	03-00609	03-00609	03-00608	03-00612	03-00612
02-00601	02-00601	02-00602	02-00604	02-00604	02-00604
01-00602	01-00602	01-00602	01-00602	01-00602	01-00602
01435460	01436240	01437510	01438440	01439300	01440080
01220780	01220780	01220780	01220780	01220780	01220780
60K	80K	100K	120K	140K	160K

Sheet 3 of 4

12/20/78

PANEL TT802023-211-1

34-03335	34-04401	34-05173	34-02729	34-05260	34-06409
33-00111	33-00176	33-00396	33-01279	33-00407	33-00742
32-01572	32-01769	32-01870	32-00027	32-01680	32-01967
31-00030	31-00178	31-00348	31-00884	31-00348	31-00643
30-04172	30-05396	30-06233	30-06355	30-06301	30-07603
29-01684	29-01882	29-01981	29-00015	29-01991	29-02074
28-01369	28-01442	28-01464	28-00121	28-01456	28-01459
27-01691	27-01287	27-01997	27-00217	27-01997	27-02114
26-02003	26-02283	26-02435	26-00400	26-02453	26-02621
25-01619	25-01784	25-01880	25-00173	25-01878	25-01985
24-01713	24-01834	24-01491	24-00100	24-01881	24-01926
23-01739	23-01979	23-02113	23-00146	23-02124	23-02265
22-01709	22-01876	22-01962	22-00096	22-01961	22-02046
21-01942	21-02164	21-02273	21-00050	21-02274	21-02386
20-00011	20-00619	20-00011	20-00011	20-00010	20-00011
19-00010	19-00011	19-00011	19-00011	19-00011	19-00011
18-00015	18-00015	18-00015	18-00015	18-00015	18-00015
17-00013	17-00013	17-00013	17-00013	17-00013	17-00013
16-00016	16-00016	16-00016	16-00016	16-00016	16-00016
15-00008	15-00013	15-00015	15-00009	15-00015	15-00018
14-00003	14-00008	14-00009	14-00004	14-00009	14-00012
13-00000	13-00005	13-00005	13-00000	13-00005	13-00005
12-00039	12-00052	12-00063	12-00014	12-00063	12-00077
11-00002	11-00009	11-00012	11-00004	11-00011	11-00017
10-00004	10-00008	10-00008	10-00003	10-00009	10-00013
09-00001	09-00001	09-00000	09-00000	09-00001	09-00001
08-00013	08-00015	08-00017	08-00002	08-00018	08-00016
07-00040	07-00053	07-00062	07-00013	07-00062	07-00075
06-00025	06-00034	06-00039	06-00007	06-00039	06-00047
05-00005	05-00009	05-00014	05-00018	05-00014	05-00019
04-00004	04-00004	04-00002	04-00011	04-00014	04-00003
03-00013	03-00013	03-00011	03-00009	03-00013	03-00013
02-00004	02-00004	02-00001	02-00010	02-00000	02-00003
01-00002	01-00004	01-00007	01-00016	01-00008	01-00011
01441550	01443180	01444570	01446200	01445400	01450210
*1220780	*1220780	*1220780	*1220780	*1220780	*1220780
180K	200K	210K	Perm. Set Check @ 0	210K	220K

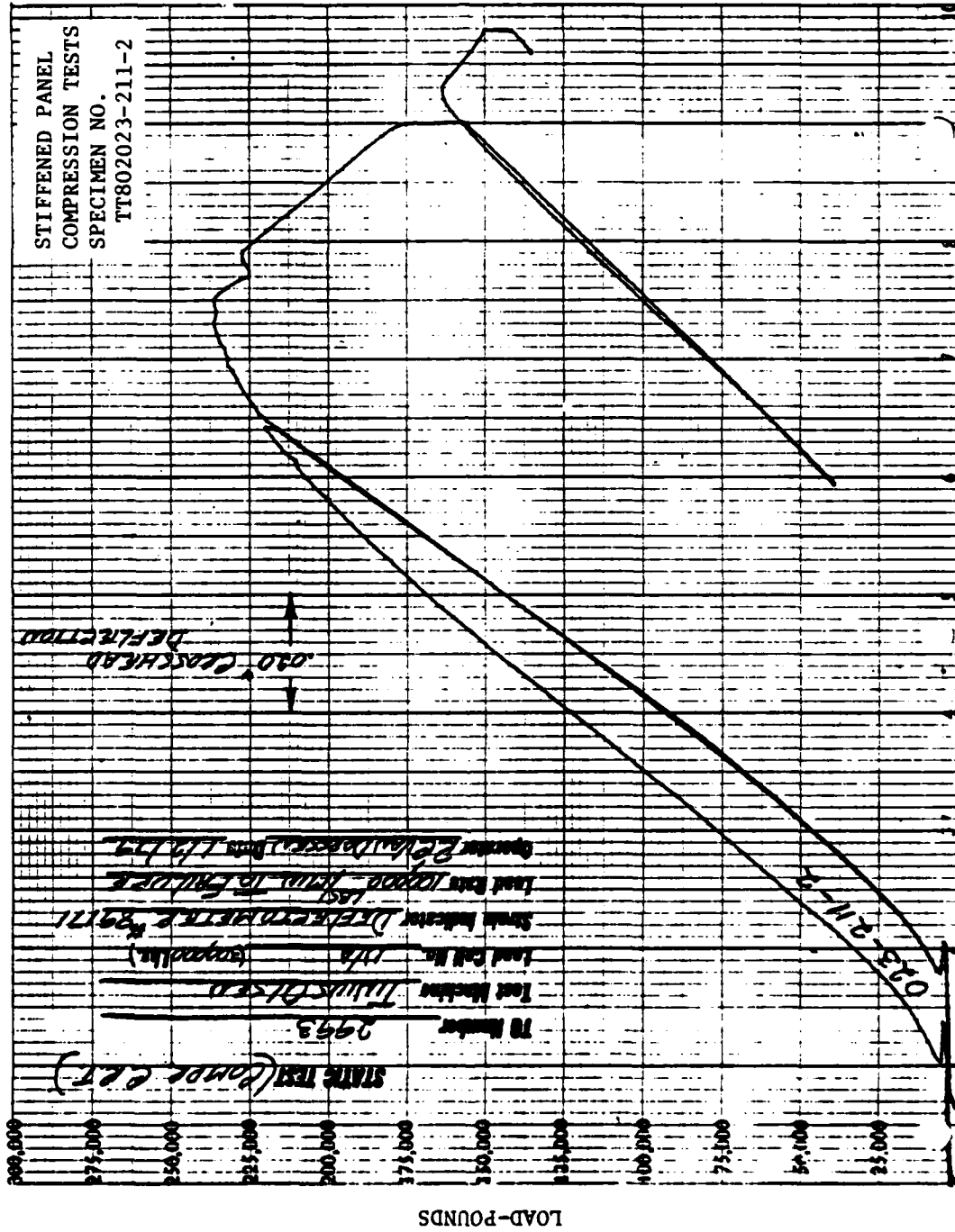
Sheet 4 of 4

12/20/78

PANEL TT802023-211-1

230K	240K	246.5K (Maximum Load)	Post-Buckling @ 105K	Post Buckling @ 0
34-07728	34-09951	34-13357	34-11324	34-13529
33-01173	33-01931	33-08076	33-09457	33-09889
32-02084	32-02216	32-05599	32-09799	32-09947
31-01094	31-01970	31-09914	31-08432	31-08506
30-09376	30-12536	30-22843	30-20152	30-14625
29-02173	29-02238	29-05545	29-09360	29-09599
28-01426	28-01318	28-00513	28-00244	28-00972
27-02272	27-02497	27-04295	27-03809	27-01332
26-02820	26-03060	26-02073	26-01676	26-00993
25-02119	25-02317	25-02563	25-02363	25-00295
24-01949	24-01917	24-00769	24-01078	24-00300
23-02440	23-02643	23-01762	23-01355	23-00622
22-02130	22-02183	22-00184	22-00051	22-00092
21-02513	21-02660	21-01540	21-00695	21-00037
20-00012	20-00012	20-00012	20-00012	20-00012
19-00010	19-00010	19-00010	19-00010	19-00010
18-00016	18-00016	18-00016	18-00016	18-00016
17-00012	17-00012	17-00012	17-00012	17-00012
16-00015	16-00015	16-00015	16-00015	16-00015
15-00021	15-00021	15-00021	15-00021	15-00021
14-00016	14-00016	14-00016	14-00016	14-00016
13-00009	13-00014	13-00031	13-00067	13-00094
12-00095	12-00126	12-00723	12-01059	12-01090
11-00025	11-00047	11-00546	11-00689	11-00945
10-00016	10-00021	10-00021	10-00023	10-00021
09-00001	09-00000	09-00012	09-00043	09-00037
08-00021	08-00028	08-00039	08-00066	08-00080
07-00091	07-00124	07-00017	07-00039	07-00064
06-00056	06-00078	06-00078	06-00093	06-00082
05-00019	05-00022	05-00022	05-00042	05-00099
04-00002	04-00010	04-00010	04-00029	04-00036
03-00013	03-00022	03-00030	03-00079	03-00083
02-00003	02-00006	02-00006	02-00079	02-00086
01-00012	01-00012	01-00016	01-00076	01-00082
01452190	01454210	01454510	0145480	01458090
01220780	01220780	01220780	01220780	01220780

TER073



1/2/79

**PANEL TT802023-211-2**

Strain Gauge	60K	40K	20K	Test Start
34-00000	34-000472	34-00209	34-00012	34-00000
33-00001	33-00202	33-00109	33-00010	33-00034
32-00000	32-00403	32-00212	32-00012	32-00045
31-00000	31-00064	31-00029	31-00001	31-00004
30-00001	30-00703	30-00383	30-00024	30-00092
29-00000	29-00352	29-00165	29-00032	29-00032
28-00001	28-00366	28-00177	28-00010	28-00041
27-00000	27-00369	27-00161	27-00006	27-00033
26-00000	26-00391	26-00199	26-00013	26-00045
25-00001	25-00440	25-00237	25-00010	25-00051
24-00000	24-00405	24-00206	24-00005	24-00037
23-00001	23-00360	23-00173	23-00009	23-00037
22-00002	22-00404	22-00200	22-00011	22-00044
21-00001	21-00387	21-00141	21-00009	21-00041
<del>20-00003</del>	<del>20-00635</del>	<del>20-00034</del>	<del>20-00007</del>	<del>20-00038</del>
<del>19-00004</del>	<del>19-00004</del>	<del>19-00004</del>	<del>19-00004</del>	<del>19-00000</del>
<del>18-00005</del>	<del>18-00005</del>	<del>18-00005</del>	<del>18-00005</del>	<del>18-00005</del>
<del>17-00006</del>	<del>17-00006</del>	<del>17-00006</del>	<del>17-00006</del>	<del>17-00006</del>
<del>16-00007</del>	<del>16-00007</del>	<del>16-00007</del>	<del>16-00007</del>	<del>16-00007</del>
15-00000	15-00001	15-00001	15-00001	15-00100
14-00000	14-00000	14-00000	14-00000	14-00000
13-00000	13-00000	13-00000	13-00000	13-00000
12-00000	12-00004	12-00003	12-00000	12-00000
11-00000	11-00002	11-00002	11-00001	11-00000
10-00000	10-00000	10-00000	10-00001	10-00001
09-00005	09-00003	09-00000	09-00000	09-00000
08-00005	08-00002	08-00000	08-00000	08-00000
07-00014	07-00009	07-00004	07-00000	07-00000
06-00013	06-00009	06-00004	06-00000	06-00000
05-00002	05-00002	05-00001	05-00012	05-00001
04-00001	04-00000	04-00000	04-00007	04-00001
03-00004	03-00004	03-00001	03-00000	03-00000
02-00002	02-00003	02-00004	02-00012	02-00001
01-00000	01-00000	01-00000	01-00009	01-00000
01104360	01104360	01104310	01101140	01059010
0102790	0102790	0102790	0102790	0102790

60K

40K

20K

Test Start

DEF. IND.  
ZERO REF.

@ 5K

Strain Cage  
R Cal



SHEET 3 of 4

1/2/79

PANEL TT802023-211-2

34-0527A	34-09109	34-06250	34-09186	34-12838
33-00207	33+01251	33+02432	33+01338	33+02270
32-01876	32-01947	32+00023	32-02034	32-02057
31-00837	31+01269	31+02007	31+02097	31+03083
30-00839	30-08512	30-10949	30-11122	30-14989
29-01783	29-01855	29-01917	29-01930	29-01933
28-01568	28-01603	28-01612	28-01598	28-01548
27-02158	27-02327	27-02532	27-02563	27-02659
26-02081	26-02214	26-02361	26-02390	26-02533
25-01912	25-02022	25-02150	25-02165	25-02351
24-01852	24-01680	24-01683	24-01684	24-01624
23-02176	23-02317	23-02460	23-02490	23-02627
22-01900	22-01979	22-02051	22-02055	22-02092
21-02123	21-02234	21-02351	21-02369	21-02511
20-00834	20-00835	20-00949	20-00953	20-00955
19-00802	19-00803	19-00856	19-00857	19-00858
18-00805	18-00806	18-00807	18-00808	18-00809
17-00802	17-00803	17-00804	17-00805	17-00806
16-00805	16-00806	16-00807	16-00808	16-00809
15-00817	15-00818	15-00819	15-00820	15-00821
14-00813	14-00814	14-00815	14-00816	14-00817
13-00805	13-00806	13-00807	13-00808	13-00809
12-00851	12-00852	12-00853	12-00854	12-00855
11-00816	11-00817	11-00818	11-00819	11-00820
10-00822	10-00823	10-00824	10-00825	10-00826
09-00823	09-00824	09-00825	09-00826	09-00827
08-00814	08-00815	08-00816	08-00817	08-00818
07-00862	07-00863	07-00864	07-00865	07-00866
06-00840	06-00841	06-00842	06-00843	06-00844
05-00867	05-00868	05-00869	05-00870	05-00871
04-00803	04-00804	04-00805	04-00806	04-00807
03-00812	03-00813	03-00814	03-00815	03-00816
02-00804	02-00805	02-00806	02-00807	02-00808
01-00801	01-00802	01-00803	01-00804	01-00805
01109110	01109111	01109112	01109113	01109114
0102790	0102791	0102792	0102793	0102794
200K	210K	220K	230K	240K

Perm. Set Check

@

0



TER073

SHEET 4 of 4

1/2/79

PANEL TT802023-211-2

34-24716	34-23553	34-26215
33-04964	33-09013	33-10239
32-01787	32-02384	32-02624
31-08748	31-13582	31-12796
30-23644	30-21196	30-21663
29-01505	29-03909	29-03946
28-01118	28-00470	28-00609
27-03577	27-04745	27-01239
26-02640	26-01851	26-00557
25-02837	25-03378	25-00418
24-01299	24-00378	24-00643
23-02675	23-01830	23-00585
22-01670	22-00277	22-00223
21-02738	21-01675	21-00305
<del>20-00634</del>	<del>20-00022</del>	<del>20-00624</del>
<del>19-00001</del>	<del>19-00003</del>	<del>19-00002</del>
<del>18-00006</del>	<del>18-00006</del>	<del>18-00007</del>
<del>17-00004</del>	<del>17-00004</del>	<del>17-00004</del>
<del>16-00005</del>	<del>16-00006</del>	<del>16-00006</del>
15-00049	15-00040	15-00027
14-00040	14-00031	14-00018
13-00026	13-00039	13-00036
12-00225	12-00718	12-00550
11-00113	11-00498	11-00426
10-00058	10-00048	10-00031
09-00054	09-00049	09-00023
08-00032	08-00039	08-00027
07-00193	07-00516	07-00384
06-00135	06-00490	06-00410
05-00011	05-00262	05-00192
04-00040	04-00303	04-00229
03-00057	03-00320	03-00280
02-00041	02-00300	02-00234
01-00023	01-00274	01-00219
0111490	01117010	01118180
00102790	00102790	00102790
236.5K	Post Buckling @	Post Buckling @
	163.5K	0

APPENDIX F / DECK/BULKHEAD ELEMENT TEST DATA

TABLE OF CONTENTS

	Page
1 / STATIC TEST DATA . . . . .	B-691
2 / FATIGUE TEST DATA . . . . .	B-701

LIST OF ILLUSTRATIONS

Figure Number		Page
F-1	Strain Gage Identifications, Locations and Orientations on Deck/Bulkhead Element Static Tensile Test Specimens . . . . .	B-692
F-2	Annotated Example of Data Printout . . . . .	B-693
F-3	Strain Gage Identifications, Locations and Orientations on Deck/Bulkhead Element Tensile Fatigue Test Specimens . . . . .	B-702

## 1 / STATIC TEST DATA

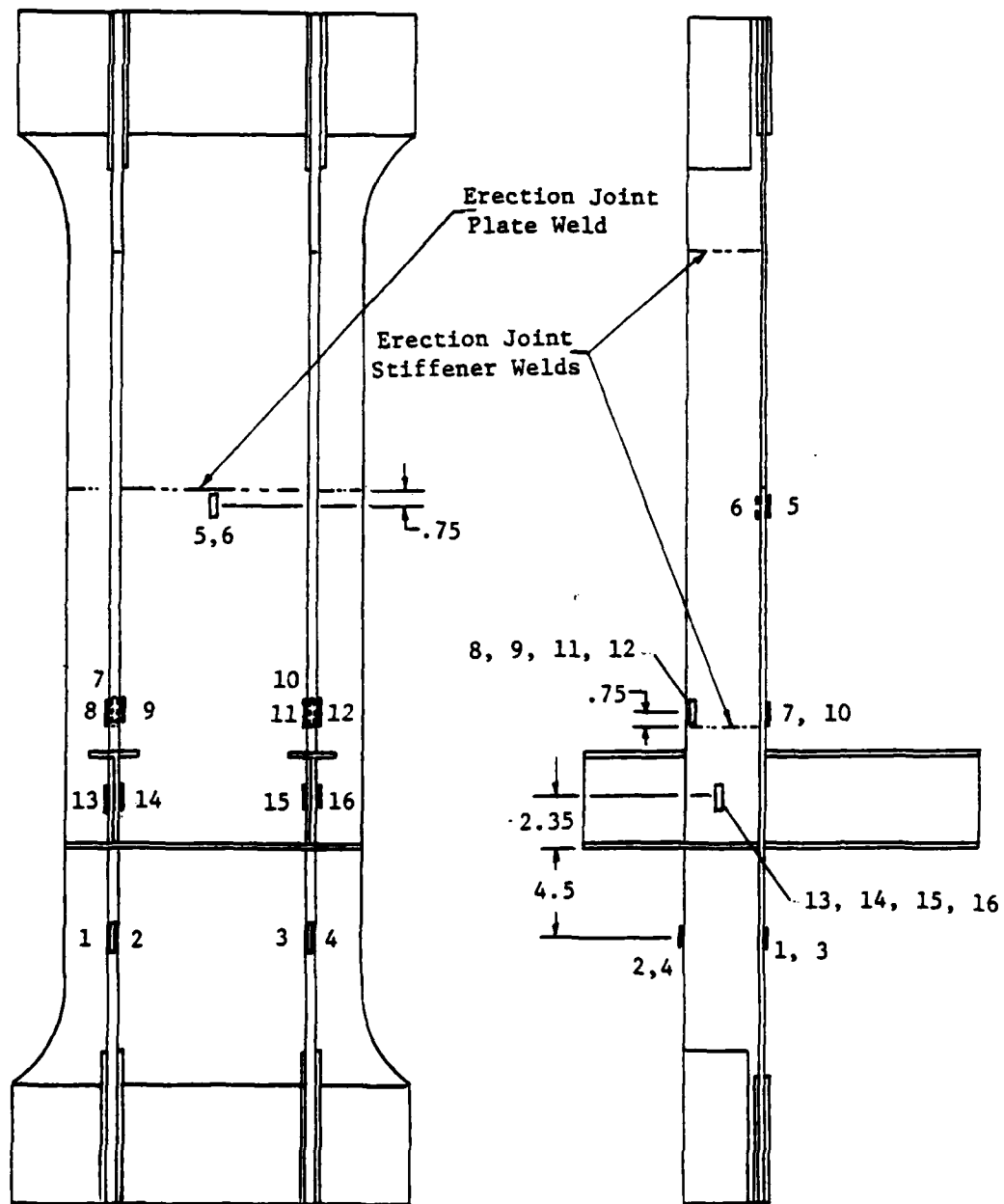
This section contains all recorded test data for the deck/bulkhead element static tensile test specimens. The data set presented for each specimen starts with an autographic plot of applied load versus axial strain averaged over a 10-inch gage length of the element mid-section centered on the deck plate butt weld. Tabulations of the recorded strain gage readings for all applied load increments and calibration checks complete the data set for each specimen. Preceding the first data set are an illustration of strain measurement locations on the specimens correlated to data channel numbers, Figure F-1, and an annotated example of data printout, Figure F-2.

## Index of Data Sets

Specimen Number	Page
TT802033-1-S1 . . . . .	B-694
TT802033-1-S2 . . . . .	B-697

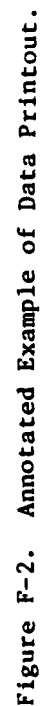
PRECEDING PAGE BLANK-NOT FILMED

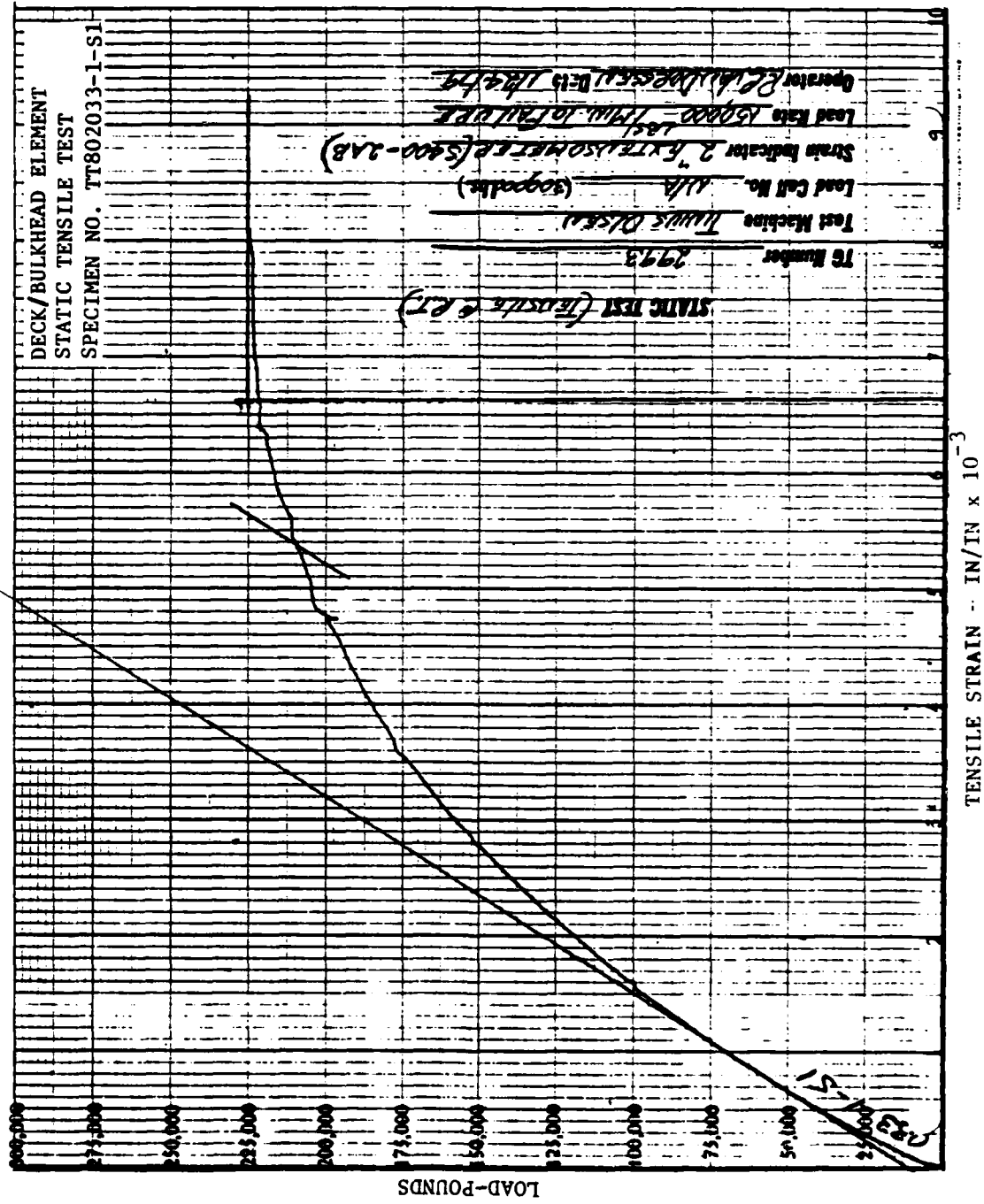
TER073



Note: All dimensions shown in inches.

Figure F-1. Strain Gage Identifications, Locations and Orientations for Deck/Bulkhead Element Static Tensile Test Specimens.





1/24/79

Deck/Bulkhead Element No. TT802033-1-S1  
Strain Data - Initial Static Tensile Test

Test Start	0	Load - kips	
16-00001	16-00153	16-01213	16-02184
15-00001	15-00181	15-01220	15-02155
14-00002	14-00184	14-01230	14-02165
13-00001	13-00159	13-01160	13-02119
12-00001	12-00129	12-01757	12-03045
11-00001	11-00133	11-00801	11-01670
10-00001	10-00311	10-00919	10-01508
09-00001	09-00193	09-00510	09-01220
08-00001	08-00771	08-02068	08-03452
07-00001	07-00306	07-00852	07-01671
06-00000	06-00055	06-00271	06-00457
05-00001	05-00557	05-01890	05-03493
04-00002	04-00410	04-01206	04-01905
03-00000	03-00334	03-01049	03-01908
02-00000	02-00389	02-01138	02-01775
01-00000	01-00349	01-01113	01-02515
01425040	01432330	01433230	01435370
*0331510000	*0331510045	*0331510075	*0331510125
Strain Gage			
R Cal			
16-01429	16-00754	16-01693	16-02657
15-01429	15-00785	15-01485	15-02601
14-01430	14-00404	14-01706	14-02606
13-01428	13-00749	13-01635	13-02597
12-01427	12-01229	12-02387	12-04847
11-01427	11-00590	11-01045	11-02559
10-01429	10-00432	10-01171	10-02084
09-01427	09-00354	09-00497	09-02058
08-01426	08-01490	08-02610	08-03085
07-01427	07-00590	07-01116	07-02591
06-01427	06-00144	06-00435	06-00930
05-01426	05-01192	05-02435	05-04449
04-01426	04-00807	04-01585	04-02170
03-01428	03-00705	03-01363	03-02652
02-01428	02-00769	02-01480	02-02043
01-01427	01-00735	01-01516	01-03187
01425090	01432560	01433540	01436010
*0331510000	*0331510050	*0331510100	*0331510150

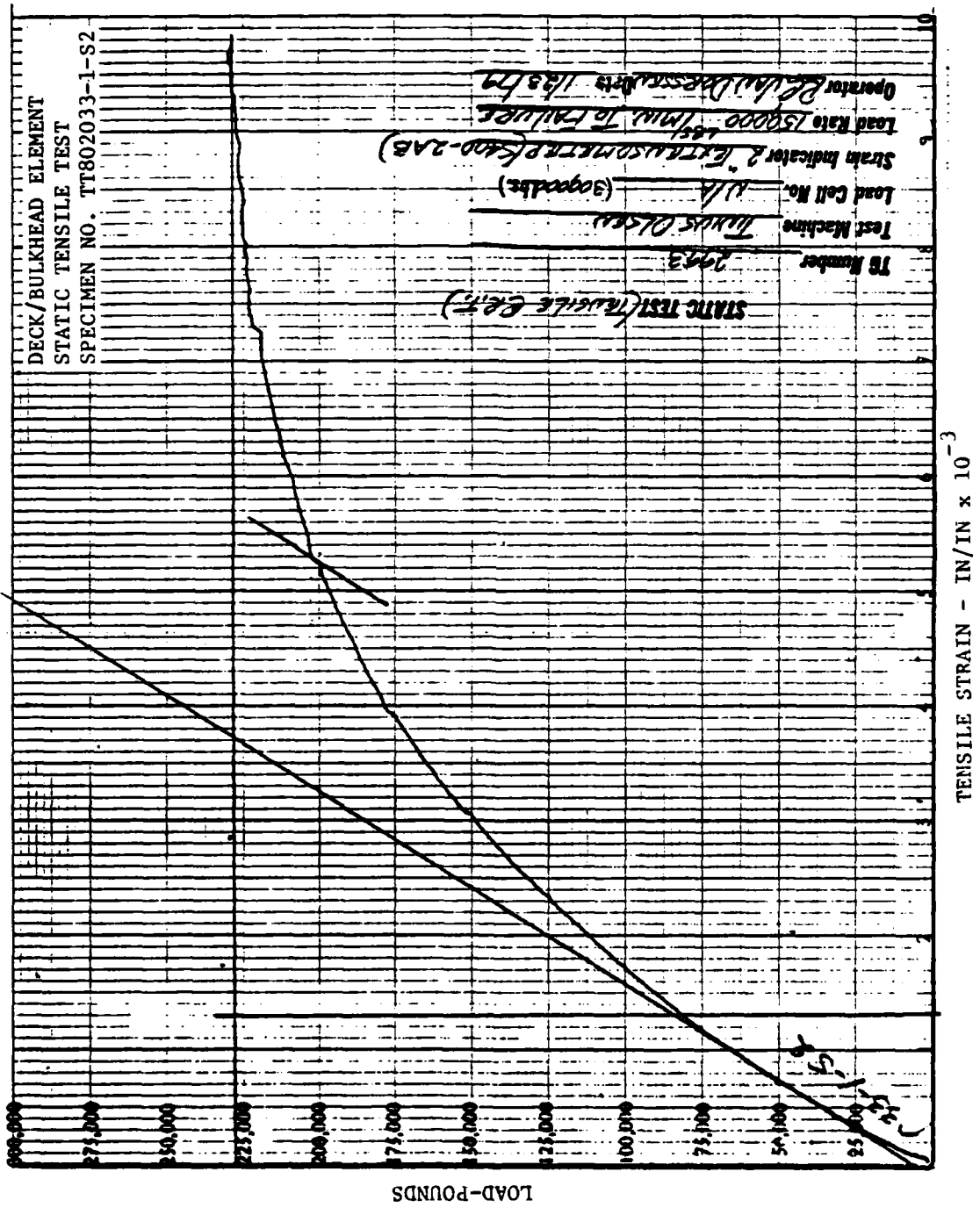
Deck/Bulkhead Element No. TT802033-1-S1  
Strain Data - Initial Static Tensile Test

1/24/79

16+03128	16+03709	16+01659
15+03062	15+03712	15+01444
14+03055	14+03667	14+04026
13+03103	13+03798	13+04209
12+05421	12+01414	12+01276
11+03948	11+00429	11+00133
10+03277	10+05918	10+10794
09+03084	09+07966	09+06261
08+01981	08+00369	08+00279
07+03581	07+04922	07+06683
06+01208	06+02095	06+06721
05+05589	05+08394	05+11746
04+02413	04+02727	04+02930
03+03343	03+04307	03+05269
02+02327	02+02598	02+02687
01+03830	01+04493	01+06295
01436250	01439410	01441300
0331510175	0331510210	0331510230

16+03561	16+03857	16+00876
15+03540	15+03914	15+00916
14+03513	14+03699	14+01137
13+03425	13+04064	13+01267
12+02495	12+01263	12+01366
11+02119	11+00353	11+00191
10+04912	10+07098	10+03998
09+05203	09+07594	09+04403
08+00564	08+00294	08+00245
07+04594	07+05376	07+04461
06+01684	06+02875	06+03472
05+07521	05+09679	05+06078
04+02644	04+02779	04+00944
03+04033	03+04715	03+02349
02+02553	02+02678	02+00373
01+04573	01+05387	01+02438
01436570	01441200	01447150
0331510200	0331510220	0331510000
		Post Failure
		0





Deck/Bulkhead Element No. TT802033-1-S2 1/23/79  
Strain Data - Initial Static Tensile Test

16+00001  
15+00002  
14+00000  
13+00001  
12+00000  
11+00000  
10+00002  
09+00001  
08+00000  
07+00002  
06+00002  
05+00001  
04+00001  
03+00002  
02+00000  
01+00002  
00+017530  
00331520000  
Test Start  
0

16+01416  
15+01417  
14+01419  
13+01421  
12+01418  
11+01417  
10+01415  
09+01416  
08+01416  
07+01417  
06+01419  
05+01415  
04+01418  
03+01416  
02+01416  
01+01414  
00+017580  
00331520000  
Strain Gage  
R Cal

16+00376  
15+00364  
14+00378  
13+00335  
12+00554  
11+00311  
10+00435  
09+00263  
08+00338  
07+00637  
06+00554  
05+00089  
04+00365  
03+00375  
02+00342  
01+00398  
00+00590  
00331520000  
Load - Kips

16+00779  
15+00758  
14+00782  
13+00697  
12+01088  
11+00599  
10+00836  
09+00501  
08+00064  
07+01209  
06+01173  
05+00211  
04+00754  
03+00744  
02+00711  
01+00773  
00+01350  
00331520050

16+02136  
15+02024  
14+02178  
13+01475  
12+02511  
11+01723  
10+02284  
09+01252  
08+01540  
07+02977  
06+03452  
05+00421  
04+02401  
03+01683  
02+01949  
01+01851  
00+02620  
00331520125

16+02599  
15+02428  
14+02672  
13+02432  
12+04751  
11+02557  
10+04475  
09+01928  
08+02306  
07+04394  
06+04269  
05+01166  
04+03025  
03+01413  
02+02713  
01+02157  
00+02730  
00331520190

16+01216  
15+01178  
14+01210  
13+01091  
12+01569  
11+00859  
10+01190  
09+00712  
08+00958  
07+01679  
06+01853  
05+00368  
04+01130  
03+01112  
02+01043  
01+01139  
00+02430  
00331520075

16+01673  
15+01606  
14+01681  
13+01524  
12+02063  
11+01150  
10+01509  
09+00936  
08+01227  
07+02170  
06+02417  
05+00568  
04+01462  
03+01421  
02+01328  
01+01515  
00+025630  
00331520100

Deck/Bulkhead Element No. TT802033-1-S2  
 1/23/79  
 Strain Data - Initial Static Tensile Test

16+03078  
 15+02832  
 14+03176  
 13+02887  
 12+07015  
 11+03539  
 10+02996  
 09+02906  
 08+03305  
 07+03046  
 06+05987  
 05+01423  
 04+03670  
 03+02141  
 02+03314  
 01+02450  
 00+29180  
 +0331520175

16+04134  
 15+03649  
 14+04310  
 13+03761  
 12+03112  
 11+06316  
 10+01105  
 09+08947  
 08+06072  
 07+01660  
 06+00456  
 05+05960  
 04+05442  
 03+02434  
 02+04481  
 01+02972  
 00+31490  
 +0331520220

16+02002  
 15+01500  
 14+02564  
 13+02114  
 12+01830  
 11+02175  
 10+00673  
 09+01885  
 08+12233  
 07+01253  
 06+00161  
 05+12862  
 04+07544  
 03+02713  
 02+05862  
 01+03408  
 00+35310  
 +0331520335

16+03422  
 15+03271  
 14+03753  
 13+03363  
 12+07665  
 11+04628  
 10+01138  
 09+04575  
 08+04549  
 07+04937  
 06+02880  
 05+02377  
 04+04450  
 03+02361  
 02+03695  
 01+02752  
 00+30210  
 +0331520200

16+04472  
 15+03871  
 14+04773  
 13+04074  
 12+02055  
 11+10840  
 10+01044  
 09+13048  
 08+08585  
 07+01201  
 06+00119  
 05+12736  
 04+07205  
 03+02453  
 02+05069  
 01+03172  
 00+33310  
 +0331520230

16+01335  
 15+00699  
 14+01615  
 13+00600  
 12+01715  
 11+01680  
 10+00599  
 09+10171  
 08+09514  
 07+01173  
 06+00004  
 05+09483  
 04+04001  
 03+00896  
 02+02288  
 01+00179  
 00+00150  
 +0331520000  
 Post Failure  
 0

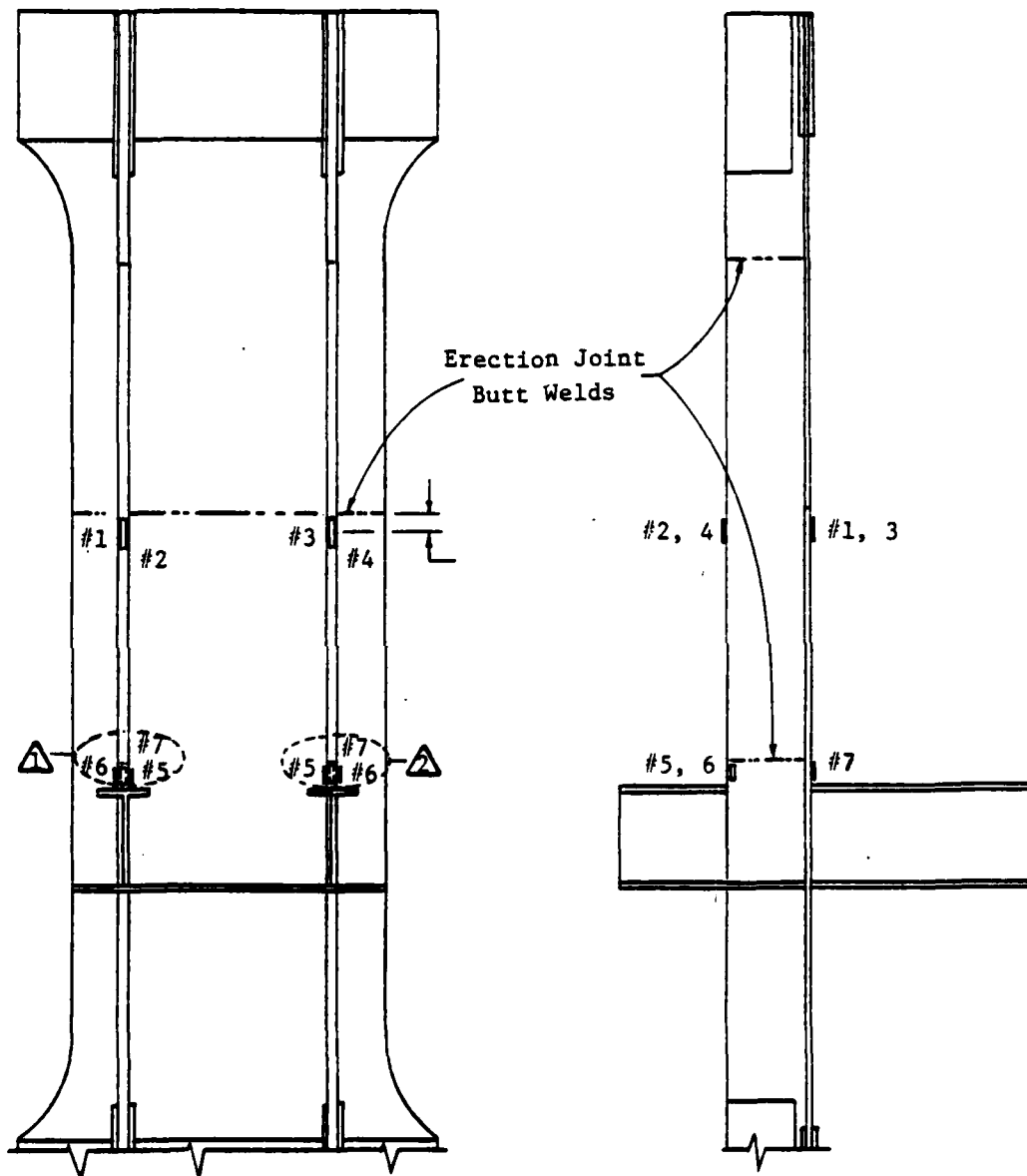
## 2 / FATIGUE TEST DATA

This section contains tabulations of all recorded data from the static tensile strain survey test conducted on each deck/bulkhead element fatigue test specimen prior to the start of cyclic testing. These surveys were conducted on all three fatigue test specimens since independent measurements made by the test laboratory revealed that each specimen, as delivered, had longitudinal bowing distortion exceeding the specified limit. The peak localized strain recorded for each specimen during the survey was then used as a basis to establish the peak nominal stress level for fatigue cycling.

Figure F-3, which precedes the tabulated strain data, documents the identifications, locations and orientations of all strain gages installed in various patterns on the deck/bulkhead element fatigue test specimens.

## Index of Strain Survey Data Sets

Specimen Number	Page
TT802033-1-F1 . . . . .	B-703
TT802033-1-F2 . . . . .	B-704
TT802033-1-F3 . . . . .	B-705



- Notes:
- △ For Specimen No. TT802033-1-F1 only.
  - △ For Specimens No. TT802033-1-F2 and -F3 only.
  - 3. All gages were Micro-Measurements Type EA-13-250BG-120W except gages no. 5 and 6 on Specimen No. TT802033-1-F2 were Micro-Measurements Type EA-13-125AD-120.

Figure F-3. Strain Gage Identifications, Locations and Orientations for Deck/Bulkhead Element Tensile Fatigue Test Specimens.

Static Loading Strain Survey Results - Deck/Bulkhead  
Element No. TT802033-1-F1.

Cross-Section Area = 6.231 sq. in. Test Date: 10/9/79  
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (ksi))	Strain Gage Reading - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	-2	1	-7	4	-5	0
12.46	2	187	277	176	281	483	211	214
24.92	4	401	504	381	513	892	408	456
37.39	6	623	723	596	737	1311	789	768
0	0	0	-15	-2	-10	30	218	38
43.62	7	724	852	693	873	1588	1202	950
0	0	-1	-12	-2	0	88	585	148
43.62	7	NR	NR	NR	NR	NR	1266	NR
0	0	NR	NR	NR	NR	NR	33	NR
40.50	6.5	698	806	631	812	1504	686	910
0	0	20	5	-11	5	90	46	148

Selected maximum load for fatigue testing

NR - Not Recorded

△ SG 6 rebalanced to a zero reading before repeat loading to 7 ksi nominal stress.

Static Loading Strain Survey Results - Deck/Bulkhead Element  
No. TT802033-1-F2

Cross-Section Area = 6.266 sq. in. Test Date: 11/8/79  
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (ksi)	Strain Gage Reading - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	0	0	0	0	0	0
12.55	2	203	187	200	193	367	190	197
25.10	4	415	396	408	409	770	405	400
0	0	1	-13	0	-2	3	1	1
31.40	5	522	507	513	524	974	517	509
0	0	1	-12	-1	-1	4	2	6
37.60	6	632	606	621	625	1154	616	652
0	0	2	-12	-1	-2	0	3	40
43.90	7	750	695	718	716	1321	707	852
0	0	5	-17	-16	-3	-3	3	133

Selected  
maximum  
load for  
fatigue  
testing

Static Loading Strain Survey Results - Deck/Bulkhead Element  
No. TT802033-1-F3.

Cross-Section Area = 6.148 sq. in. Test Date: 10/16/79  
Note: Reference Figure F-3 for locations of strain gages on test specimen.

Axial Load (kips)	Nominal Stress (Ksi)	Strain Gage Readings - Microinches/inch						
		SG 1	SG 2	SG 3	SG 4	SG 5	SG 6	SG 7
0	0	0	1	-1	-2	-2	-4	0
12.30	2	184	251	189	247	368	263	224
24.60	4	388	449	399	446	677	485	475
30.80	5	492	549	508	546	829	599	638
0	0	2	4	1	4	-5	13	40
36.90	6	611	612	623	604	927	669	987
0	0	2	2	1	4	-10	12	255

Selected  
maximum  
load for  
fatigue  
testing



## APPENDIX G / THREE-BAY PANEL ELEMENT TEST DATA

This appendix contains all data recorded during testing of the three-bay panel element specimens under various combinations of normal pressure and axial compression loading. In general, the data set presented for each specimen and test condition consists of three elements. The first element is a summary table listing the test loading/data recording increments including, as applicable, the normal pressure measurements, applied axial load and corresponding nominal compression stress, and dial deflection indicator readings. For the test conditions involving axial load, the second element in the data set is a copy of the X-Y-Y recorder plot of applied compression load versus loading head travel measured at each end of the head. Completing each data set are tabulations of the strain gage and deflection transducer readings recorded at each load increment.

Preceding the initial data set are illustrations of the strain and displacement (transducer) measurement locations on the three-bay element specimens (Figures G-1 and G-2, respectively) and an annotated example of the strain and deflection data printout (Figure G-3).

## INDEX OF DATA SETS

<u>Specimen No.</u>	<u>Test Condition</u>	<u>Page</u>
TT802041-1	Normal Pressure (Elastic) . . . . .	B-712
	Axial Compression (Elastic) . . . . .	B-715

## TER073

<u>Specimen No.</u>	<u>Test Condition</u>	<u>Page</u>
TT802041-1 (Cont'd)	Axial Compression w/4 psig Normal Pressure (Elastic) . . . . .	B-719
	Axial Compression w/8 psig Normal Pressure (Elastic) . . . . .	B-723
	Proportional Axial Compression and Normal Pressure (Plastic) . . . . .	B-727
	Proportional Axial Compression and Normal Pressure to Failure . . . . .	B-733
TT802041-1B	Axial Compression to Failure . . . . .	B-739
TT802041-3	Normal Pressure (Elastic) . . . . .	B-744
	Axial Compression (Elastic) . . . . .	B-749
	Axial Compression w/4 psig Normal Pressure (Elastic) . . . . .	B-754
	Axial Compression w/8 psig Normal Pressure (Elastic) . . . . .	B-759
TT802041-3 Mod.	Normal Pressure (Elastic) . . . . .	B-766
	Axial Compression (Elastic) . . . . .	B-771
	Axial Compression w/4 psig Normal Pressure (Elastic) . . . . .	B-775
	Axial Compression w/8 psig Normal Pressure (Elastic) . . . . .	B-781
	Proportional Axial Compression and Normal Pressure to Failure . . . . .	B-786
TT802041-3A Mod.	Normal Pressure (Elastic) . . . . .	B-792
	Axial Compression to Failure . . . . .	B-795

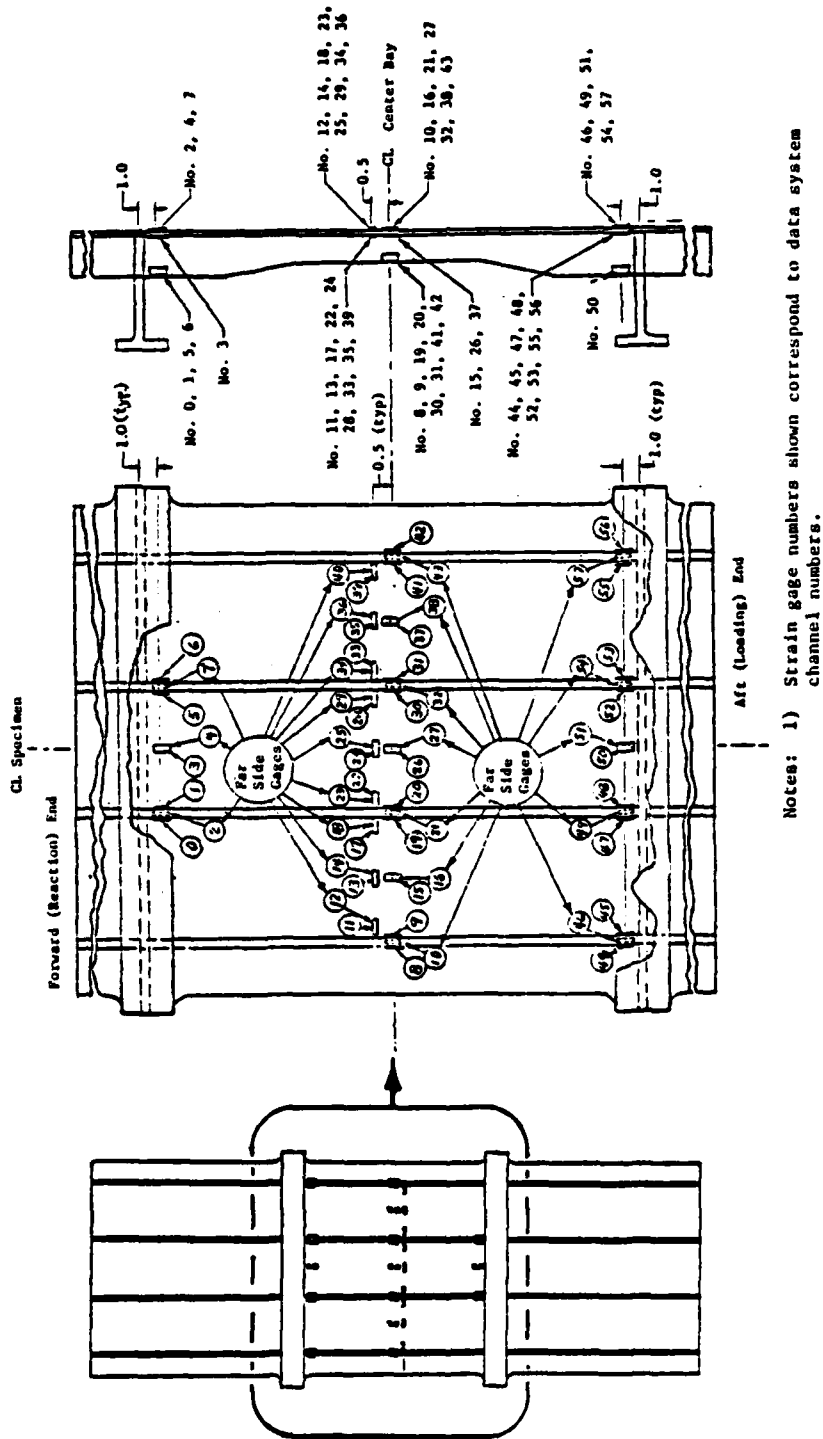


Figure G-1. Strain Gage Identification, Locations and Orientations on Three-Bay Element Specimens.

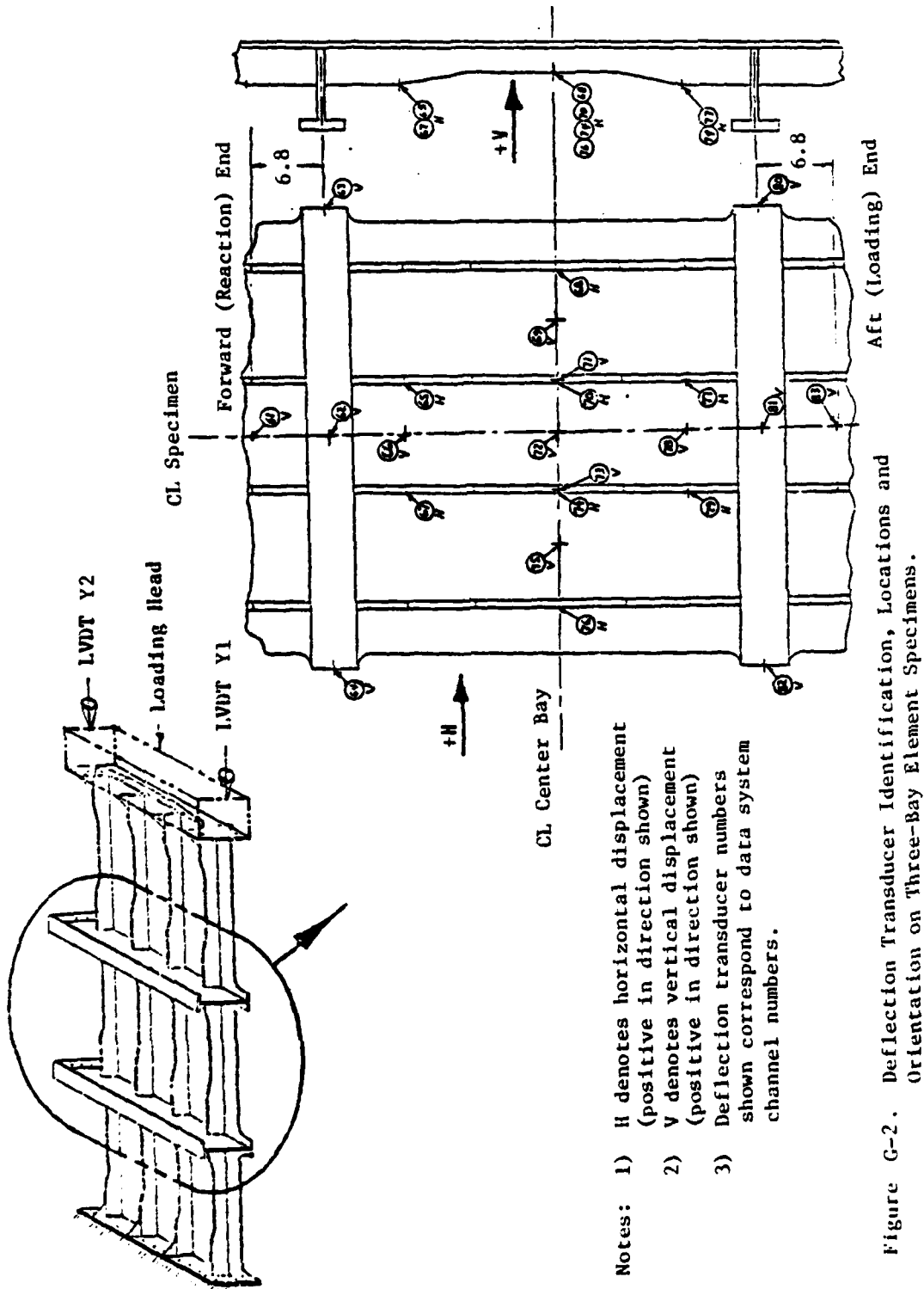


Figure G-2. Deflection Transducer Identification, Locations and Orientation on Three-Bay Element Specimens.

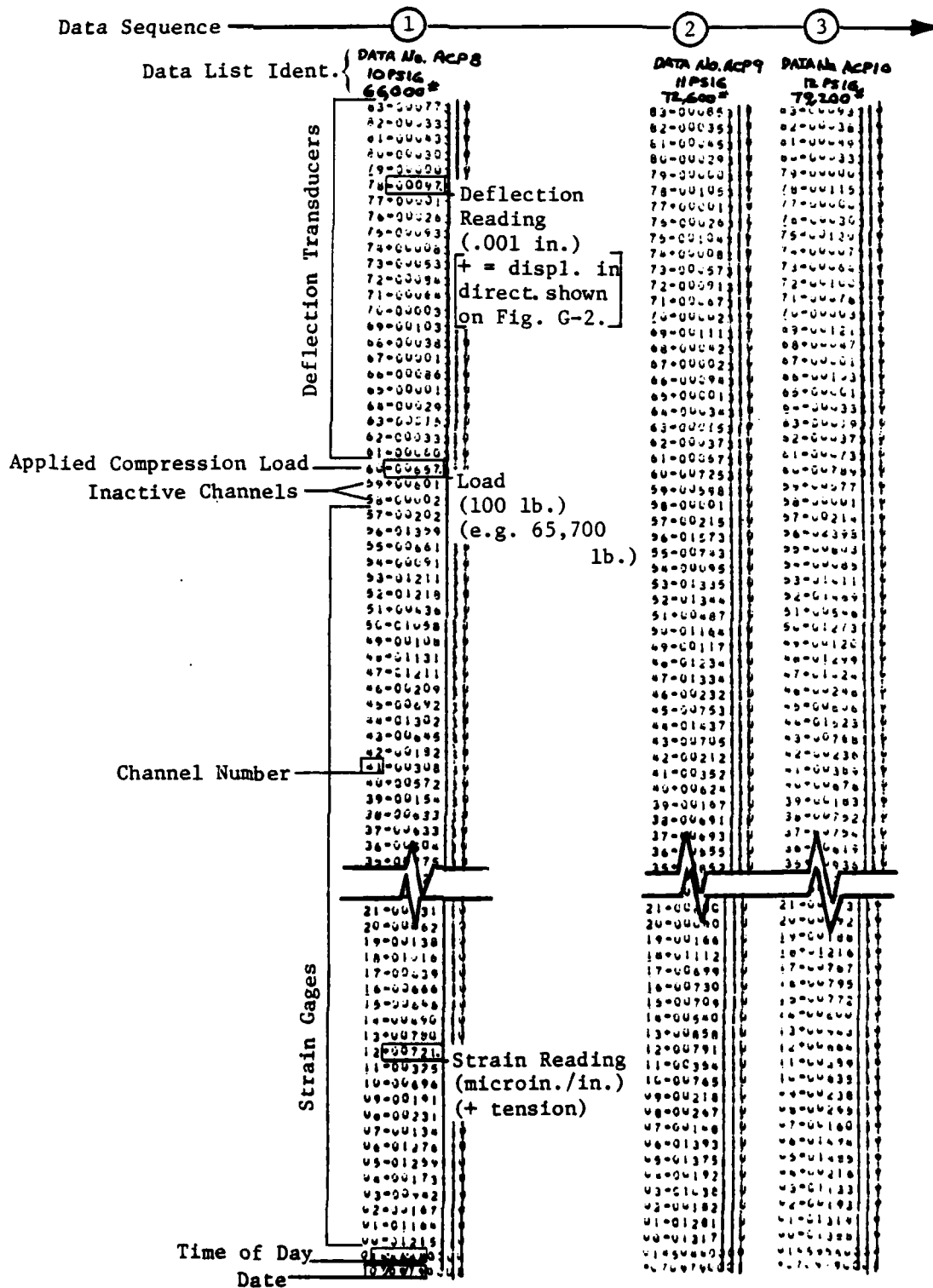


Figure G-3. Annotated Example of Data Printout.

THREE-BAY ELEMENT COMBINED LOADING TEST  
NORMAL PRESSURE TEST ON TT 802041-1  
REF TT 00017 P 3.5.2.1  
TEST DATE 6-26-79

DATA No.	PRESSURE	
	PSIG	IN. Hg
P1	0	0
P2	2	4.07
P3	4	8.14
P4	6	12.22
P5	8	16.29
P6	10	20.36
P7	2	4.07
P8	0	0

## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Normal Pressure

Page 1 of 2

DATA No. P1 DATA No. P2 DATA No. P3 DATA No. P4 DATA No. P5 DATA No. P6 DATA No. P7  
0 PSIG 2 PSIG 4 PSIG 6 PSIG 8 PSIG 10 PSIG 12 PSIG  
AVER 10 PSIG

03-00001	13-00012	23-00026	33-00040	43-00054	53-00068	63-00082
04-00002	14-00013	24-00027	34-00041	44-00055	54-00069	64-00083
05-00003	15-00014	25-00028	35-00042	45-00056	55-00070	65-00084
06-00004	16-00015	26-00029	36-00043	46-00057	56-00071	66-00085
07-00005	17-00016	27-00030	37-00044	47-00058	57-00072	67-00086
08-00006	18-00017	28-00031	38-00045	48-00059	58-00073	68-00087
09-00007	19-00018	29-00032	39-00046	49-00060	59-00074	69-00088
10-00008	20-00019	30-00033	40-00047	50-00061	60-00075	70-00089
11-00009	21-00020	31-00034	41-00048	51-00062	61-00076	71-00090
12-00010	22-00021	32-00035	42-00049	52-00063	62-00077	72-00091
13-00011	23-00022	33-00036	43-00050	53-00064	63-00078	73-00092
14-00012	24-00023	34-00037	44-00051	54-00065	64-00079	74-00093
15-00013	25-00024	35-00038	45-00052	55-00066	65-00080	75-00094
16-00014	26-00025	36-00039	46-00053	56-00067	66-00081	76-00095
17-00015	27-00026	37-00040	47-00054	57-00068	67-00082	77-00096
18-00016	28-00027	38-00041	48-00055	58-00069	68-00083	78-00097
19-00017	29-00028	39-00042	49-00056	59-00070	69-00084	79-00098
20-00018	30-00029	40-00043	50-00057	60-00071	70-00085	80-00099
21-00019	31-00030	41-00044	51-00058	61-00072	71-00086	81-00100
22-00020	32-00031	42-00045	52-00059	62-00073	72-00087	82-00101
23-00021	33-00032	43-00046	53-00060	63-00074	73-00088	83-00102
24-00022	34-00033	44-00047	54-00061	64-00075	74-00089	84-00103
25-00023	35-00034	45-00048	55-00062	65-00076	75-00090	85-00104
26-00024	36-00035	46-00049	56-00063	66-00077	76-00091	86-00105
27-00025	37-00036	47-00050	57-00064	67-00078	77-00092	87-00106
28-00026	38-00037	48-00051	58-00065	68-00079	78-00093	88-00107
29-00027	39-00038	49-00052	59-00066	69-00080	79-00094	89-00108
30-00028	40-00039	50-00053	60-00067	70-00081	80-00095	90-00109
31-00029	41-00040	51-00054	61-00068	71-00082	81-00096	91-00110
32-00030	42-00041	52-00055	62-00069	72-00083	82-00097	92-00111
33-00031	43-00042	53-00056	63-00070	73-00084	83-00098	93-00112
34-00032	44-00043	54-00057	64-00071	74-00085	84-00099	94-00113
35-00033	45-00044	55-00058	65-00072	75-00086	85-00100	95-00114
36-00034	46-00045	56-00059	66-00073	76-00087	86-00101	96-00115
37-00035	47-00046	57-00060	67-00074	77-00088	87-00102	97-00116
38-00036	48-00047	58-00061	68-00075	78-00089	88-00103	98-00117
39-00037	49-00048	59-00062	69-00076	79-00090	89-00104	99-00118
40-00038	50-00049	60-00063	70-00077	80-00091	90-00105	00-00119
41-00039	51-00050	61-00064	71-00078	81-00092	91-00106	01-00120
42-00040	52-00051	62-00065	72-00079	82-00093	92-00107	02-00121
43-00041	53-00052	63-00066	73-00080	83-00094	93-00108	03-00122
44-00042	54-00053	64-00067	74-00081	84-00095	94-00109	04-00123
45-00043	55-00054	65-00068	75-00082	85-00096	95-00110	05-00124
46-00044	56-00055	66-00069	76-00083	86-00097	96-00111	06-00125
47-00045	57-00056	67-00070	77-00084	87-00098	97-00112	07-00126
48-00046	58-00057	68-00071	78-00085	88-00099	98-00113	08-00127
49-00047	59-00058	69-00072	79-00086	89-00100	99-00114	09-00128
50-00048	60-00059	70-00073	80-00087	90-00101	00-00115	10-00129
51-00049	61-00060	71-00074	81-00088	91-00102	01-00116	11-00130
52-00050	62-00061	72-00075	82-00089	92-00103	02-00117	12-00131
53-00051	63-00062	73-00076	83-00090	93-00104	03-00118	13-00132
54-00052	64-00063	74-00077	84-00091	94-00105	04-00119	14-00133
55-00053	65-00064	75-00078	85-00092	95-00106	05-00120	15-00134
56-00054	66-00065	76-00079	86-00093	96-00107	06-00121	16-00135
57-00055	67-00066	77-00080	87-00094	97-00108	07-00122	17-00136
58-00056	68-00067	78-00081	88-00095	98-00109	08-00123	18-00137
59-00057	69-00068	79-00082	89-00096	99-00110	09-00124	19-00138
60-00058	70-00069	80-00083	90-00097	00-00111	10-00125	20-00139
61-00059	71-00070	81-00084	91-00098	01-00112	11-00126	21-00140
62-00060	72-00071	82-00085	92-00099	02-00113	12-00127	22-00141
63-00061	73-00072	83-00086	93-00100	03-00114	13-00128	23-00142
64-00062	74-00073	84-00087	94-00101	04-00115	14-00129	24-00143
65-00063	75-00074	85-00088	95-00102	05-00116	15-00130	25-00144
66-00064	76-00075	86-00089	96-00103	06-00117	16-00131	26-00145
67-00065	77-00076	87-00090	97-00104	07-00118	17-00132	27-00146
68-00066	78-00077	88-00091	98-00105	08-00119	18-00133	28-00147
69-00067	79-00078	89-00092	99-00106	09-00120	19-00134	29-00148
70-00068	80-00079	90-00093	00-00107	10-00121	20-00135	30-00149
71-00069	81-00080	91-00094	01-00108	11-00122	21-00136	31-00150
72-00070	82-00081	92-00095	02-00109	12-00123	22-00137	32-00151
73-00071	83-00082	93-00096	03-00110	13-00124	23-00138	33-00152
74-00072	84-00083	94-00097	04-00111	14-00125	24-00139	34-00153
75-00073	85-00084	95-00098	05-00112	15-00126	25-00140	35-00154
76-00074	86-00085	96-00099	06-00113	16-00127	26-00141	36-00155
77-00075	87-00086	97-00100	07-00114	17-00128	27-00142	37-00156
78-00076	88-00087	98-00101	08-00115	18-00129	28-00143	38-00157
79-00077	89-00088	99-00102	09-00116	19-00130	29-00144	39-00158
80-00078	90-00089	00-00103	10-00117	20-00131	30-00145	40-00159
81-00079	91-00090	01-00104	11-00118	21-00132	31-00146	41-00160
82-00080	92-00091	02-00105	12-00119	22-00133	32-00147	42-00161
83-00081	93-00092	03-00106	13-00120	23-00134	33-00148	43-00162
84-00082	94-00093	04-00107	14-00121	24-00135	34-00149	44-00163
85-00083	95-00094	05-00108	15-00122	25-00136	35-00150	45-00164
86-00084	96-00095	06-00109	16-00123	26-00137	36-00151	46-00165
87-00085	97-00096	07-00110	17-00124	27-00138	37-00152	47-00166
88-00086	98-00097	08-00111	18-00125	28-00139	38-00153	48-00167
89-00087	99-00098	09-00112	19-00126	29-00140	39-00154	49-00168
90-00088	00-00099	10-00113	20-00127	30-00141	40-00155	50-00169
91-00089	01-00100	11-00114	21-00128	31-00142	41-00156	51-00170
92-00090	02-00101	12-00115	22-00129	32-00143	42-00157	52-00171
93-00091	03-00102	13-00116	23-00130	33-00144	43-00158	53-00172
94-00092	04-00103	14-00117	24-00131	34-00145	44-00159	54-00173
95-00093	05-00104	15-00118	25-00132	35-00146	45-00160	55-00174
96-00094	06-00105	16-00119	26-00133	36-00147	46-00161	56-00175
97-00095	07-00106	17-00120	27-00134	37-00148	47-00162	57-00176
98-00096	08-00107	18-00121	28-00135	38-00149	48-00163	58-00177
99-00097	09-00108	19-00122	29-00136	39-00150	49-00164	59-00178
00-00098	10-00109	20-00123	30-00137	40-00151	50-00165	60-00179
01-00099	11-00110	21-00124	31-00138	41-00152	51-00166	61-00180
02-00100	12-00111	22-00125	32-00139	42-00153	52-00167	62-00181
03-00101	13-00112	23-00126	33-00140	43-00154	53-00168	63-00182
04-00102	14-00113	24-00127	34-00141	44-00155	54-00169	64-00183
05-00103	15-00114	25-00128	35-00142	45-00156	55-00170	65-00184
06-00104	16-00115	26-00129	36-00143	46-00157	56-00171	66-00185
07-00105	17-00116	27-00130	37-00144	47-00158	57-00172	67-00186
08-00106	18-00117	28-00131	38-00145	48-00159	58-00173	68-00187
09-00107	19-00118	29-00132	39-00146	49-00160	59-00174	69-00188
10-00108	20-00119	30-00133	40-00147	50-00161	60-00175	70-00189
11-00109	21-00120	31-00134	41-00148	51-00162	61-00176	71-00190
12-00110	22-00121	32-00135	42-00149	52-00163	62-00177	72-00191
13-00111	23-00122	33-00136	43-00150	53-00164	63-00178	73-00192
14-00112	24-00123	34-00137	44-00151	54-00165	64-00179	74-00193
15-00113	25-00124	35-00138	45-00152	55-00166	65-00180	75-00194
16-00114	26-00125	36-00139	46-00153	56-00167	66-00181	76-00195
17-00115	27-00126	37-00140	47-00154	57-00168	67-00182	77-00196
18-00116	28-00127	38-00141	48-00155	58-00169	68-00183	78-00197
19-00117	29-00128	39-00142	49-00156	59-00170	69-00184	79-00198
20-00118	30-00129	40-00143	50-00157	60-00171	70-00185	80-00199
21-00119	31-00130	41-00144	51-00158	61-00172	71-00186	81-00200
22-00120	32-00131	42-00145	52-00159	62-00173	72-00187	82-00201
23-00121	33-00132	43-00146	53-00160	63-00174	73-00188	83-00202
24-00122	34-00133	44-00147	54-00161	64-00175	74-00189	84-00203
25-00123	35-00134	45-00148	55-00162	65-00176	75-00190	85-00204
26-00124	36-00135	46-00149	56-00163	66-00177	76-00191	86-00205
27-00125	37-00136	47-00150	57-00164	67-00178	77-00192	87-00206
28-00126	38-00137	48-00151	58-00165	68-00179	78-00193	88-00207
29-						

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Normal Pressure

Page 2 of 2

OP516  
AFTER OP516

03-00001  
02-00002  
01-00003  
00-00004  
14-00005  
70-00006  
77-00007  
70-00008  
70-00009  
74-00010  
73-00011  
72-00012  
71-00013  
70-00014  
69-00015  
68-00016  
67-00017  
66-00018  
65-00019  
64-00020  
63-00021  
62-00022  
61-00023  
60-00024  
59-00025  
58-00026  
57-00027  
56-00028  
55-00029  
54-00030  
53-00031  
52-00032  
51-00033  
50-00034  
49-00035  
48-00036  
47-00037  
46-00038  
45-00039  
44-00040  
43-00041  
42-00042  
41-00043  
40-00044  
39-00045  
38-00046  
37-00047  
36-00048  
35-00049  
34-00050  
33-00051  
32-00052  
31-00053  
30-00054  
29-00055  
28-00056  
27-00057  
26-00058  
25-00059  
24-00060  
23-00061  
22-00062  
21-00063  
20-00064  
19-00065  
18-00066  
17-00067  
16-00068  
15-00069  
14-00070  
13-00071  
12-00072  
11-00073  
10-00074  
09-00075  
08-00076  
07-00077  
06-00078  
05-00079  
04-00080  
03-00081  
02-00082  
01-00083  
00-00084  
14-00085  
70-00086  
77-00087  
70-00088  
70-00089  
74-00090  
73-00091  
72-00092  
71-00093  
70-00094  
69-00095  
68-00096  
67-00097  
66-00098  
65-00099  
64-00100  
63-00101  
62-00102  
61-00103  
60-00104  
59-00105  
58-00106  
57-00107  
56-00108  
55-00109  
54-00110  
53-00111  
52-00112  
51-00113  
50-00114  
49-00115  
48-00116  
47-00117  
46-00118  
45-00119  
44-00120  
43-00121  
42-00122  
41-00123  
40-00124  
39-00125  
38-00126  
37-00127  
36-00128  
35-00129  
34-00130  
33-00131  
32-00132  
31-00133  
30-00134  
29-00135  
28-00136  
27-00137  
26-00138  
25-00139  
24-00140  
23-00141  
22-00142  
21-00143  
20-00144  
19-00145  
18-00146  
17-00147  
16-00148  
15-00149  
14-00150  
13-00151  
12-00152  
11-00153  
10-00154  
09-00155  
08-00156  
07-00157  
06-00158  
05-00159  
04-00160  
03-00161  
02-00162  
01-00163  
00-00164  
14-00165  
70-00166  
77-00167  
70-00168  
70-00169  
74-00170  
73-00171  
72-00172  
71-00173  
70-00174  
69-00175  
68-00176  
67-00177  
66-00178  
65-00179  
64-00180  
63-00181  
62-00182  
61-00183  
60-00184  
59-00185  
58-00186  
57-00187  
56-00188  
55-00189  
54-00190  
53-00191  
52-00192  
51-00193  
50-00194  
49-00195  
48-00196  
47-00197  
46-00198  
45-00199  
44-00200  
43-00201  
42-00202  
41-00203  
40-00204  
39-00205  
38-00206  
37-00207  
36-00208  
35-00209  
34-00210  
33-00211  
32-00212  
31-00213  
30-00214  
29-00215  
28-00216  
27-00217  
26-00218  
25-00219  
24-00220  
23-00221  
22-00222  
21-00223  
20-00224  
19-00225  
18-00226  
17-00227  
16-00228  
15-00229  
14-00230  
13-00231  
12-00232  
11-00233  
10-00234  
09-00235  
08-00236  
07-00237  
06-00238  
05-00239  
04-00240  
03-00241  
02-00242  
01-00243  
00-00244  
14-00245  
70-00246  
77-00247  
70-00248  
70-00249  
74-00250  
73-00251  
72-00252  
71-00253  
70-00254  
69-00255  
68-00256  
67-00257  
66-00258  
65-00259  
64-00260  
63-00261  
62-00262  
61-00263  
60-00264  
59-00265  
58-00266  
57-00267  
56-00268  
55-00269  
54-00270  
53-00271  
52-00272  
51-00273  
50-00274  
49-00275  
48-00276  
47-00277  
46-00278  
45-00279  
44-00280  
43-00281  
42-00282  
41-00283  
40-00284  
39-00285  
38-00286  
37-00287  
36-00288  
35-00289  
34-00290  
33-00291  
32-00292  
31-00293  
30-00294  
29-00295  
28-00296  
27-00297  
26-00298  
25-00299  
24-00300  
23-00301  
22-00302  
21-00303  
20-00304  
19-00305  
18-00306  
17-00307  
16-00308  
15-00309  
14-00310  
13-00311  
12-00312  
11-00313  
10-00314  
09-00315  
08-00316  
07-00317  
06-00318  
05-00319  
04-00320  
03-00321  
02-00322  
01-00323  
00-00324  
14-00325  
70-00326  
77-00327  
70-00328  
70-00329  
74-00330  
73-00331  
72-00332  
71-00333  
70-00334  
69-00335  
68-00336  
67-00337  
66-00338  
65-00339  
64-00340  
63-00341  
62-00342  
61-00343  
60-00344  
59-00345  
58-00346  
57-00347  
56-00348  
55-00349  
54-00350  
53-00351  
52-00352  
51-00353  
50-00354  
49-00355  
48-00356  
47-00357  
46-00358  
45-00359  
44-00360  
43-00361  
42-00362  
41-00363  
40-00364  
39-00365  
38-00366  
37-00367  
36-00368  
35-00369  
34-00370  
33-00371  
32-00372  
31-00373  
30-00374  
29-00375  
28-00376  
27-00377  
26-00378  
25-00379  
24-00380  
23-00381  
22-00382  
21-00383  
20-00384  
19-00385  
18-00386  
17-00387  
16-00388  
15-00389  
14-00390  
13-00391  
12-00392  
11-00393  
10-00394  
09-00395  
08-00396  
07-00397  
06-00398  
05-00399  
04-00400  
03-00401  
02-00402  
01-00403  
00-00404  
14-00405  
70-00406  
77-00407  
70-00408  
70-00409  
74-0

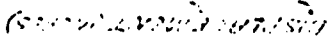


DANIEL AREA = 10.917 IN.<sup>2</sup>

1-140208 LL NO ASAL NO1553ADDDJ 7UWIA  
AYIAL COMPLETION TEST ON 7780204-

TEST DATE 6-28-79

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	DIAL IND							
			D1 (OPPOSITE PI)	D2 (OPPOSITE CY.)						
A01	0	0	.1000	.1000	HYD. CYL. P.W. OUT					
A01a	0	0	.1005	.1005	HYD. CYL. P.W. IN					
A02	2,000	21,934	.1025	.1028						
A03	4,000	43,668	.1055	.1061						
A04	6,000	65,502	.1100	.1117						
A05	8,000	87,336	.1122	.1172						
A06	10,000	109,170	.1130	.1184						
A07	12,000	131,004	.1142	.1200						
A08	2,000	21,500	.0990	.1038						
A09	0	0	.0938	.0910	HYD. CYL. P.W. IN					
A010	0	0	.0938	.0910	HYD. CYL. P.W. OUT					





TER073

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Axial Compression

Page 2 of 2

DATA NO. 1	DATA NO. 2	DATA NO. 3	DATA NO. 4
131,000*	215,000*	150,000*	150,000*
83+00003	83+00003	83+00003	83+00003
82+00014	82+00014	82+00014	82+00014
81+00018	81+00018	81+00018	81+00018
80+00015	80+00015	80+00015	80+00015
79+00020	79+00020	79+00020	79+00020
78+00004	78+00004	78+00004	78+00004
77+00009	77+00009	77+00009	77+00009
76+00036	76+00036	76+00036	76+00036
75+00068	75+00068	75+00068	75+00068
74+00013	74+00013	74+00013	74+00013
73+00036	73+00036	73+00036	73+00036
72+00050	72+00050	72+00050	72+00050
71+00035	71+00035	71+00035	71+00035
70+00019	70+00019	70+00019	70+00019
69+00057	69+00057	69+00057	69+00057
68+00003	68+00003	68+00003	68+00003
67+00005	67+00005	67+00005	67+00005
66+00001	66+00001	66+00001	66+00001
65+00026	65+00026	65+00026	65+00026
64+00006	64+00006	64+00006	64+00006
63+00026	63+00026	63+00026	63+00026
62+00020	62+00020	62+00020	62+00020
61+00003	61+00003	61+00003	61+00003
60+00010	60+00010	60+00010	60+00010
59+00048	59+00048	59+00048	59+00048
58+00000	58+00000	58+00000	58+00000
57+00030	57+00030	57+00030	57+00030
56+00098	56+00098	56+00098	56+00098
55+00052	55+00052	55+00052	55+00052
54+00061	54+00061	54+00061	54+00061
53+00079	53+00079	53+00079	53+00079
52+00049	52+00049	52+00049	52+00049
51+00005	51+00005	51+00005	51+00005
50+00024	50+00024	50+00024	50+00024
49+00060	49+00060	49+00060	49+00060
48+00064	48+00064	48+00064	48+00064
47+00073	47+00073	47+00073	47+00073
46+00043	46+00043	46+00043	46+00043
45+00073	45+00073	45+00073	45+00073
44+00091	44+00091	44+00091	44+00091
43+00098	43+00098	43+00098	43+00098
42+00075	42+00075	42+00075	42+00075
41+00076	41+00076	41+00076	41+00076
40+00046	40+00046	40+00046	40+00046
39+00067	39+00067	39+00067	39+00067
38+00023	38+00023	38+00023	38+00023
37+00067	37+00067	37+00067	37+00067
36+00064	36+00064	36+00064	36+00064
35+00071	35+00071	35+00071	35+00071
34+00058	34+00058	34+00058	34+00058
33+00092	33+00092	33+00092	33+00092
32+00097	32+00097	32+00097	32+00097
31+00078	31+00078	31+00078	31+00078
30+00095	30+00095	30+00095	30+00095
29+00024	29+00024	29+00024	29+00024
28+00072	28+00072	28+00072	28+00072
27+00046	27+00046	27+00046	27+00046
26+00021	26+00021	26+00021	26+00021
25+00048	25+00048	25+00048	25+00048
24+00010	24+00010	24+00010	24+00010
23+00019	23+00019	23+00019	23+00019
22+00078	22+00078	22+00078	22+00078
21+00007	21+00007	21+00007	21+00007
20+00038	20+00038	20+00038	20+00038
19+00031	19+00031	19+00031	19+00031
18+00053	18+00053	18+00053	18+00053
17+00079	17+00079	17+00079	17+00079
16+00066	16+00066	16+00066	16+00066
15+00021	15+00021	15+00021	15+00021
14+00043	14+00043	14+00043	14+00043
13+00037	13+00037	13+00037	13+00037
12+00042	12+00042	12+00042	12+00042
11+00027	11+00027	11+00027	11+00027
10+00094	10+00094	10+00094	10+00094
09+00011	09+00011	09+00011	09+00011
08+00021	08+00021	08+00021	08+00021
07+00066	07+00066	07+00066	07+00066
06+00099	06+00099	06+00099	06+00099
05+00034	05+00034	05+00034	05+00034
04+00065	04+00065	04+00065	04+00065
03+00044	03+00044	03+00044	03+00044
02+00039	02+00039	02+00039	02+00039
01+00066	01+00066	01+00066	01+00066
00+00031	00+00031	00+00031	00+00031
0135210	0135210	0135210	0135210
0628790	0628790	0628790	0628790

THREE BOY ELEMENT COMBINED LOADING TEST

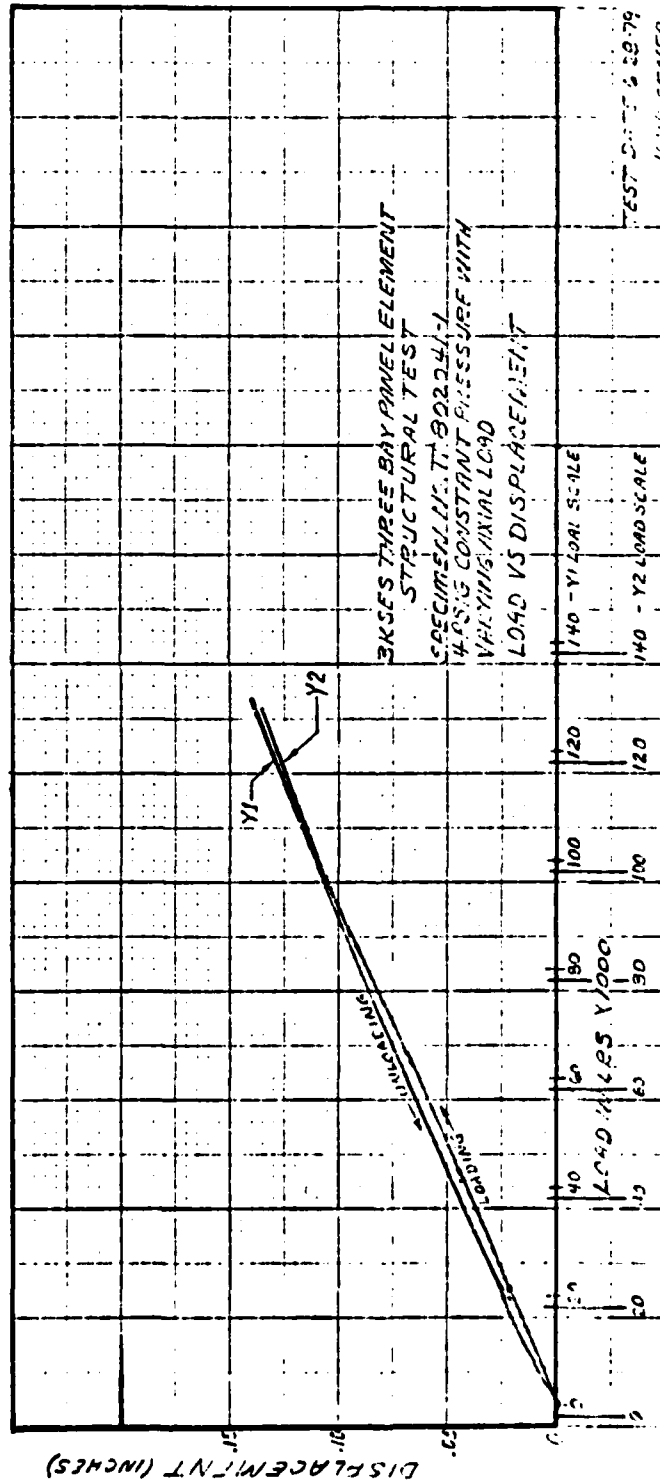
AXIAL COMPRESSION & PRESSURE TEST ON TT 302041-1

TEST DATE 6-28-79

EFF 77900017 H3.5.2.3

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSIG	Wt. Lb	CHL. INCH. DI	DIAL. INCH. D2						
ACP 0	0	0	0	0	.1000	.1000	(PIN TO HYL. CYL. OUT)					
ACP 1	0	0	0	0	.0998	.1003	(PIN TO HYL. CYL. IN)					
ACP 2	0	0	4	8.14	.0998	.1002						
ACP 3	2,000	21,834	4	8.14	.1012	.1019						
ACP 4	4,000	43,668	4	8.14	.1033	.1039						
ACP 5	6,000	65,502	4	8.14	.1062	.1074						
ACP 6	8,000	87,336	4	8.14	.1100	.1123						
ACP 7	10,000	109,170	4	8.14	.1122	.1151						
ACP 8	12,000	131,004	4	8.14	.1124	.1157						
ACP 9	2,000	21,834	4	8.14	.1015	.1035						
ACP 10	0	0	4	8.14	.0961	.0962						
ACP 11	0	0	0	0	.0949	.0957	(PIN TO HYL. CYL. IN)					
ACP 12	0	0	0	0	.0949	.0949	(PIN TO HYL. CYL. OUT)					

TER073



B-720

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 2

[illegible]

## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Axial Compression with 4 psig Normal Pressure Page 2 of 2

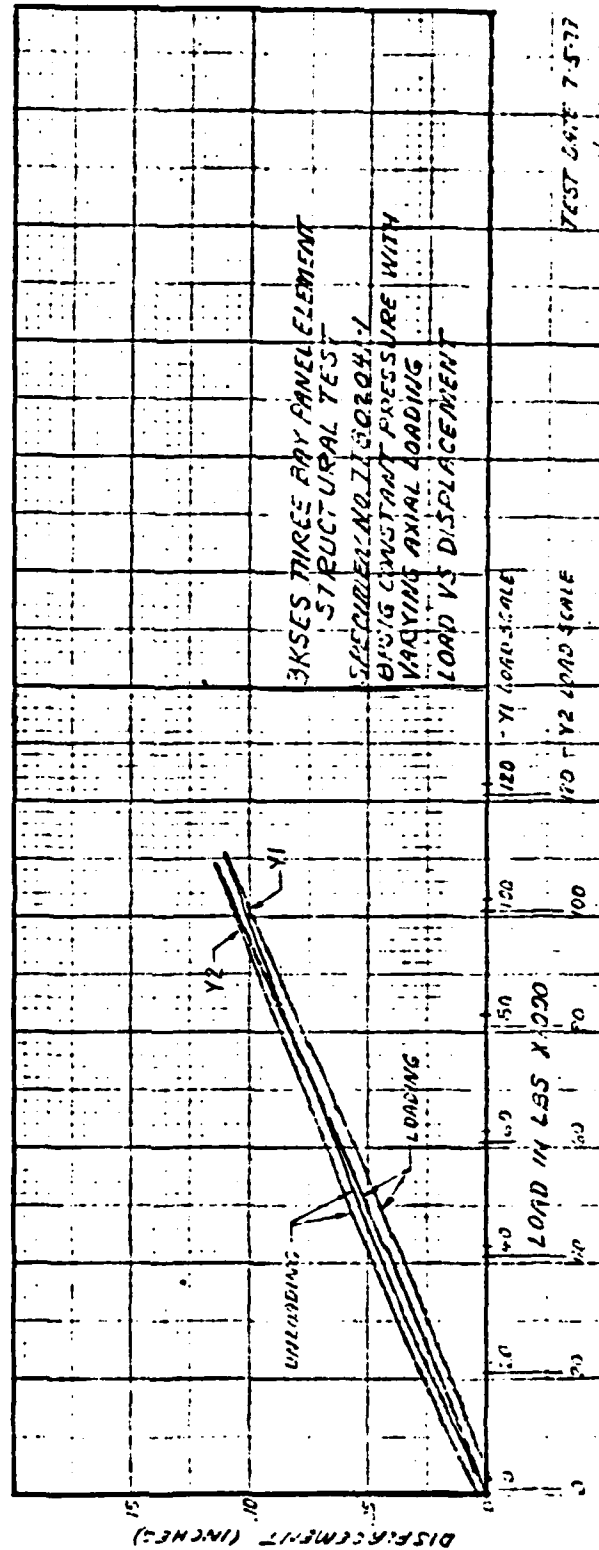
[illegible]



CALCULATED  
 THREE BAY ELEMENT COMBINED LOADING TEST  
 PANEL AREA = 10.97 IN<sup>2</sup> AXIAL COMPRESSION & PRESSURE TEST ON T502041-1 TEST DATE 7-5-79  
 REF T502041-1

DATA NO	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESSURE PSIG	IN. HG	TIME IND	DIAL IND D1	DIAL IND D2	DIAL IND D3	DIAL IND D4	HYD CYL P.W. IN	HYD CYL P.W. OUT
ACP0	0	0	0	0	.100	.100	.100	.100	.200		
ACP1	0	0	0	0	.100	.100	.100	.100	.200		
ACP12	0	0	8	16.29	.101	.101	.101	.130	.317		
ACP2	2,000	21,834	8	16.29	.103	.103	.103	.129	.213		
ACP3	4,000	43,668	8	16.29	.105	.105	.105	.126	.207		
ACP4	6,000	65,502	8	16.29	.109	.110	.110	.1235	.198		
ACP5	7,000	76,419	8	16.29	.111	.1125	.1125	.1225	.194		
ACP6	8,000	87,336	8	16.29	.1125	.115	.115	.122	.188		
ACP7	9,000	98,253	8	16.29	.114	.1165	.1165	.122	.182		
ACP8	10,000	109,170	8	16.29	.1155	.118	.118	.122	.177		
ACP9	2,000	21,834	8	16.29	.109	.110	.110	.1295	.211		
ACP10	0	0	8	16.29	.105	.105	.105	.132	.220		
ACP11	0	0	0	0	.102	.102	.102	.100	.201	HYD CYL P.W. IN	
ACP12	0	0	0	0	.102	.102	.102	.100	.201	HYD CYL P.W. OUT	

TER073



B-724

## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Elastic Axial Compression with 8 psig Normal Pressure Page 1 of 2

DATA No. ACP0 HYD. CYL. PIN OUT ZERO PSIG ZERO LOAD	DATA No. ACP1 HYD. CYL. PIN IN ZERO PSIG ZERO LOAD	DATA No. ACP2 8 PSIG ZERO LOAD	DATA No. ACP3 8 PSIG 20,900 #	DATA No. ACP4 8 PSIG 43,700 #	DATA No. ACP5 8 PSIG 65,500 #	DATA No. ACP6 8 PSIG 76,400 #
83-00000	83-00001	83-00002	83-00003	83-00004	83-00005	83-00006
82-00001	82-00002	82-00003	82-00004	82-00005	82-00006	82-00007
81-00000	81-00001	81-00002	81-00003	81-00004	81-00005	81-00006
80-00001	80-00002	80-00003	80-00004	80-00005	80-00006	80-00007
79-00000	79-00001	79-00002	79-00003	79-00004	79-00005	79-00006
78-00001	78-00002	78-00003	78-00004	78-00005	78-00006	78-00007
77-00000	77-00001	77-00002	77-00003	77-00004	77-00005	77-00006
76-00001	76-00002	76-00003	76-00004	76-00005	76-00006	76-00007
75-00000	75-00001	75-00002	75-00003	75-00004	75-00005	75-00006
74-00001	74-00002	74-00003	74-00004	74-00005	74-00006	74-00007
73-00000	73-00001	73-00002	73-00003	73-00004	73-00005	73-00006
72-00001	72-00002	72-00003	72-00004	72-00005	72-00006	72-00007
71-00000	71-00001	71-00002	71-00003	71-00004	71-00005	71-00006
70-00001	70-00002	70-00003	70-00004	70-00005	70-00006	70-00007
69-00000	69-00001	69-00002	69-00003	69-00004	69-00005	69-00006
68-00001	68-00002	68-00003	68-00004	68-00005	68-00006	68-00007
67-00000	67-00001	67-00002	67-00003	67-00004	67-00005	67-00006
66-00001	66-00002	66-00003	66-00004	66-00005	66-00006	66-00007
65-00000	65-00001	65-00002	65-00003	65-00004	65-00005	65-00006
64-00001	64-00002	64-00003	64-00004	64-00005	64-00006	64-00007
63-00000	63-00001	63-00002	63-00003	63-00004	63-00005	63-00006
62-00001	62-00002	62-00003	62-00004	62-00005	62-00006	62-00007
61-00000	61-00001	61-00002	61-00003	61-00004	61-00005	61-00006
60-00001	60-00002	60-00003	60-00004	60-00005	60-00006	60-00007
59-00000	59-00001	59-00002	59-00003	59-00004	59-00005	59-00006
58-00001	58-00002	58-00003	58-00004	58-00005	58-00006	58-00007
57-00000	57-00001	57-00002	57-00003	57-00004	57-00005	57-00006
56-00001	56-00002	56-00003	56-00004	56-00005	56-00006	56-00007
55-00000	55-00001	55-00002	55-00003	55-00004	55-00005	55-00006
54-00001	54-00002	54-00003	54-00004	54-00005	54-00006	54-00007
53-00000	53-00001	53-00002	53-00003	53-00004	53-00005	53-00006
52-00001	52-00002	52-00003	52-00004	52-00005	52-00006	52-00007
51-00000	51-00001	51-00002	51-00003	51-00004	51-00005	51-00006
50-00001	50-00002	50-00003	50-00004	50-00005	50-00006	50-00007
49-00000	49-00001	49-00002	49-00003	49-00004	49-00005	49-00006
48-00001	48-00002	48-00003	48-00004	48-00005	48-00006	48-00007
47-00000	47-00001	47-00002	47-00003	47-00004	47-00005	47-00006
46-00001	46-00002	46-00003	46-00004	46-00005	46-00006	46-00007
45-00000	45-00001	45-00002	45-00003	45-00004	45-00005	45-00006
44-00001	44-00002	44-00003	44-00004	44-00005	44-00006	44-00007
43-00000	43-00001	43-00002	43-00003	43-00004	43-00005	43-00006
42-00001	42-00002	42-00003	42-00004	42-00005	42-00006	42-00007
41-00000	41-00001	41-00002	41-00003	41-00004	41-00005	41-00006
40-00001	40-00002	40-00003	40-00004	40-00005	40-00006	40-00007
39-00000	39-00001	39-00002	39-00003	39-00004	39-00005	39-00006
38-00001	38-00002	38-00003	38-00004	38-00005	38-00006	38-00007
37-00000	37-00001	37-00002	37-00003	37-00004	37-00005	37-00006
36-00001	36-00002	36-00003	36-00004	36-00005	36-00006	36-00007
35-00000	35-00001	35-00002	35-00003	35-00004	35-00005	35-00006
34-00001	34-00002	34-00003	34-00004	34-00005	34-00006	34-00007
33-00000	33-00001	33-00002	33-00003	33-00004	33-00005	33-00006
32-00001	32-00002	32-00003	32-00004	32-00005	32-00006	32-00007
31-00000	31-00001	31-00002	31-00003	31-00004	31-00005	31-00006
30-00001	30-00002	30-00003	30-00004	30-00005	30-00006	30-00007
29-00000	29-00001	29-00002	29-00003	29-00004	29-00005	29-00006
28-00001	28-00002	28-00003	28-00004	28-00005	28-00006	28-00007
27-00000	27-00001	27-00002	27-00003	27-00004	27-00005	27-00006
26-00001	26-00002	26-00003	26-00004	26-00005	26-00006	26-00007
25-00000	25-00001	25-00002	25-00003	25-00004	25-00005	25-00006
24-00001	24-00002	24-00003	24-00004	24-00005	24-00006	24-00007
23-00000	23-00001	23-00002	23-00003	23-00004	23-00005	23-00006
22-00001	22-00002	22-00003	22-00004	22-00005	22-00006	22-00007
21-00000	21-00001	21-00002	21-00003	21-00004	21-00005	21-00006
20-00001	20-00002	20-00003	20-00004	20-00005	20-00006	20-00007
19-00000	19-00001	19-00002	19-00003	19-00004	19-00005	19-00006
18-00001	18-00002	18-00003	18-00004	18-00005	18-00006	18-00007
17-00000	17-00001	17-00002	17-00003	17-00004	17-00005	17-00006
16-00001	16-00002	16-00003	16-00004	16-00005	16-00006	16-00007
15-00000	15-00001	15-00002	15-00003	15-00004	15-00005	15-00006
14-00001	14-00002	14-00003	14-00004	14-00005	14-00006	14-00007
13-00000	13-00001	13-00002	13-00003	13-00004	13-00005	13-00006
12-00001	12-00002	12-00003	12-00004	12-00005	12-00006	12-00007
11-00000	11-00001	11-00002	11-00003	11-00004	11-00005	11-00006
10-00001	10-00002	10-00003	10-00004	10-00005	10-00006	10-00007
09-00000	09-00001	09-00002	09-00003	09-00004	09-00005	09-00006
08-00001	08-00002	08-00003	08-00004	08-00005	08-00006	08-00007
07-00000	07-00001	07-00002	07-00003	07-00004	07-00005	07-00006
06-00001	06-00002	06-00003	06-00004	06-00005	06-00006	06-00007
05-00000	05-00001	05-00002	05-00003	05-00004	05-00005	05-00006
04-00001	04-00002	04-00003	04-00004	04-00005	04-00006	04-00007
03-00000	03-00001	03-00002	03-00003	03-00004	03-00005	03-00006
02-00001	02-00002	02-00003	02-00004	02-00005	02-00006	02-00007
01-00000	01-00001	01-00002	01-00003	01-00004	01-00005	01-00006
00-00001	00-00002	00-00003	00-00004	00-00005	00-00006	00-00007
01-00000	01-00001	01-00002	01-00003	01-00004	01-00005	01-00006
02-00001	02-00002	02-00003	02-00004	02-00005	02-00006	02-00007
03-00000	03-00001	03-00002	03-00003	03-00004	03-00005	03-00006
04-00001	04-00002	04-00003	04-00004	04-00005	04-00006	04-00007
05-00000	05-00001	05-00002	05-00003	05-00004	05-00005	05-00006
06-00001	06-00002	06-00003	06-00004	06-00005	06-00006	06-00007
07-00000	07-00001	07-00002	07-00003	07-00004	07-00005	07-00006
08-00001	08-00002	08-00003	08-00004	08-00005	08-00006	08-00007
09-00000	09-00001	09-00002	09-00003	09-00004	09-00005	09-00006
10-00001	10-00002	10-00003	10-00004	10-00005	10-00006	10-00007
11-00000	11-00001	11-00002	11-00003	11-00004	11-00005	11-00006
12-00001	12-00002	12-00003	12-00004	12-00005	12-00006	12-00007
13-00000	13-00001	13-00002	13-00003	13-00004	13-00005	13-00006
14-00001	14-00002	14-00003	14-00004	14-00005	14-00006	14-00007
15-00000	15-00001	15-00002	15-00003	15-00004	15-00005	15-00006
16-00001	16-00002	16-00003	16-00004	16-00005	16-00006	16-00007
17-00000	17-00001	17-00002	17-00003	17-00004	17-00005	17-00006
18-00001	18-00002	18-00003	18-00004	18-00005	18-00006	18-00007
19-00000	19-00001	19-00002	19-00003	19-00004	19-00005	19-00006
20-00001	20-00002	20-00003	20-00004	20-00005	20-00006	20-00007
21-00000	21-00001	21-00002	21-00003	21-00004	21-00005	21-00006
22-00001	22-00002	22-00003	22-00004	22-00005	22-00006	22-00007
23-00000	23-00001	23-00002	23-00003	23-00004	23-00005	23-00006
24-00001	24-00002	24-00003	24-00004	24-00005	24-00006	24-00007
25-00000	25-00001	25-00002	25-00003	25-00004	25-00005	25-00006
26-00001	26-00002	26-00003	26-00004	26-00005	26-00006	26-00007
27-00000	27-00001	27-00002	27-00003	27-00004	27-00005	27-00006
28-00001	28-00002	28-00003	28-00004	28-00005	28-00006	28-00007
29-00000	29-00001	29-00002	29-00003	29-00004	29-00005	29-00006
30-00001	30-00002	30-00003	30-00004	30-00005	30-00006	30-00007
31-00000	31-00001	31-00002	31-00003	31-00004	31-00005	31-00006
32-00001	32-00002	32-00003	32-00004	32-00005	32-00006	32-00007
33-00000	33-00001	33-00002	33-00003	33-00004	33-00005	33-00006
34-00001	34-00002	34-00003	34-00004	34-00005	34-00006	34-00007
35-00000	35-00001	35-00002	35-00003	35-00004	35-00005	35-00006
36-00001	36-00002	36-00003	36-00004	36-00005	36-00006	36-00007
37-00000	37-00001	37-00002	37-00003	37-00004	37-00005	37-00006
38-00001	38-00002	38-00003	38-00004	38-00005	38-00006	38-00007
39-00000	39-00001	39-00002	39-00003	39-00004	39-00005	39-00006
40-00001	40-00002	40-00003	40-00004	40-00005	40-00006	40-00007
41-00000	41-00001	41-00002	41-00003	41-00004	41-00005	41-00006
42-00001	42-00002	42-				

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Elastic Axial Compression with 8 psig Normal Pressure Page 2 of 2

[illegible]

THREE-BAY ELEMENT COMBINED LOADING TEST  
 MIN. COMPRESSION = PRESSURE TEST ON T1902041-1 TEST DATE 7-9-79  
 REF T1900012 W 3.5 2.3

NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESS URE PSIG	IN/IN D1	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. P.W. IN	HYD. CYL. P.W. OUT
ACP1	0	0	0	0	.100	.100	.100	.200	HYD. CYL. P.W. IN	
ACP2	0	0	0	0	.100	.100	.100	.200	HYD. CYL. P.W. IN	
ACP3	1210	13,200	2	1.07	.102	.102	.120	.209		
ACP4	2420	26,400	4	3.17	.104	.104	.123	.209		
ACP5	3630	39,600	6	12.22	.106	.106	.124	.208		
ACP6	4840	52,800	8	16.29	.108	.108	.124	.203		
ACP7	5440	59,400	7	18.32	.110	.111	.125	.193		
ACP8	6050	66,000	10	20.36	.111	.112	.125	.195		
ACP9	6650	72,600	11	22.40	.112	.114	.126	.192		
ACP10	7250	79,200	12	24.43	.114	.115	.128	.189		
ACP11	7860	85,800	13	26.47	.115	.116	.130	.185		
ACP12	8460	92,400	14	28.50	.115	.118	.131	.182		
ACP13	9070	99,000	15	30.54	.115	.119	.131	.177		
ACP14	9670	105,600	16	32.58	.117	.119	.132	.172		
ACP15	10280	112,200	17	34.61	.117	.120	.132	.167		
ACP16	10880	118,800	18	36.65	.117	.120	.132	.163		
ACP17	11490	125,400	19	38.68	.117	.120	.132	.155		
ACP18	1210	13,200	2	4.07	.104	.105	.132	.218		
ACP19	0	0	0	0	.100	.100	.105	.200	HYD. CYL. P.W. IN	
ACP20	0	0	0	0	.100	.100	.105	.200	HYD. CYL. P.W. OUT	
* LOADING SEQUENCE 2125 AS FOLLOWS:										
PRESSURE DELETED THEN AXIAL LOAD - THEN DATA TAKEN FOR EACH LOADING INCREMENT										



## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Proportional Axial Compression and Normal Pressure

Page 1 of 4

DATA No. AC1	DATA No. AC1a	DATA No. AC2	DATA No. AC3	DATA No. AC4	DATA No. AC5	DATA No. AC6
2500 FSL	2500 FSL	2500 FSL	40516	67516	67516	57400
2500 FSL	2500 FSL	13,200	26400	39600	52800	57400
03-00000	03-00000	03-00020	03-00020	03-00020	03-00020	03-00020
02-00000	02-00000	02-00023	02-00023	02-00027	02-00027	02-00031
01-00000	01-00000	01-00018	01-00018	01-00031	01-00031	01-00035
00-00000	00-00000	00-00017	00-00017	00-00021	00-00021	00-00025
74-00000	74-00000	74-00000	74-00000	74-00001	74-00001	74-00001
76-00000	76-00000	76-00031	76-00031	76-00066	76-00066	76-00066
77-00000	77-00000	77-00001	77-00001	77-00001	77-00001	77-00001
76-00001	76-00001	76-00004	76-00004	76-00015	76-00015	76-00021
75-00035	75-00035	75-00042	75-00042	75-00080	75-00080	75-00080
74-00031	74-00031	74-00032	74-00032	74-00034	74-00034	74-00035
73-00002	73-00002	73-00017	73-00017	73-00034	73-00034	73-00035
72-00001	72-00001	72-00027	72-00027	72-00059	72-00059	72-00059
71-00001	71-00001	71-00023	71-00023	71-00045	71-00045	71-00053
70-00003	70-00003	70-00001	70-00001	70-00002	70-00002	70-00002
69-00000	69-00000	69-00032	69-00032	69-00072	69-00072	69-00072
68-00001	68-00001	68-00010	68-00010	68-00042	68-00042	68-00032
67-00000	67-00000	67-00002	67-00002	67-00001	67-00001	67-00001
66-00000	66-00000	66-00023	66-00023	66-00054	66-00054	66-00051
65-00000	65-00000	65-00001	65-00001	65-00002	65-00002	65-00001
64-00000	64-00000	64-00001	64-00001	64-00025	64-00025	64-00029
63-00000	63-00000	63-00002	63-00002	63-00011	63-00011	63-00015
62-00001	62-00001	62-00010	62-00010	62-00024	62-00024	62-00032
61-00002	61-00002	61-00013	61-00013	61-00035	61-00035	61-00035
60-00003	60-00003	60-00025	60-00025	60-00032	60-00032	60-00031
59-00000	59-00000	59-00022	59-00022	59-00013	59-00013	59-00012
58-00001	58-00001	58-00000	58-00000	58-00001	58-00001	58-00000
57-00003	57-00003	57-00026	57-00026	57-00047	57-00047	57-00050
56-00000	56-00000	56-00014	56-00014	56-00017	56-00017	56-00014
55-00001	55-00001	55-00062	55-00062	55-00078	55-00078	55-00074
54-00002	54-00002	54-00030	54-00030	54-00073	54-00073	54-00065
53-00001	53-00001	53-00070	53-00070	53-00047	53-00047	53-00046
52-00001	52-00001	52-00017	52-00017	52-00055	52-00055	52-00053
51-00002	51-00002	51-00072	51-00072	51-00037	51-00037	51-00037
50-00002	50-00002	50-00001	50-00001	50-00024	50-00024	50-00024
49-00002	49-00002	49-00036	49-00036	49-00060	49-00060	49-00060
48-00002	48-00002	48-00059	48-00059	48-00021	48-00021	48-00021
47-00001	47-00001	47-00011	47-00011	47-00045	47-00045	47-00041
46-00002	46-00002	46-00000	46-00000	46-00049	46-00049	46-00046
45-00002	45-00002	45-00063	45-00063	45-00035	45-00035	45-00032
44-00000	44-00000	44-00012	44-00012	44-00037	44-00037	44-00036
43-00004	43-00004	43-00031	43-00031	43-00018	43-00018	43-00018
42-00004	42-00004	42-00011	42-00011	42-00001	42-00001	42-00001
41-00008	41-00008	41-00007	41-00007	41-00059	41-00059	41-00059
40-00008	40-00008	40-00017	40-00017	40-00029	40-00029	40-00029
39-00002	39-00002	39-00030	39-00030	39-00056	39-00056	39-00056
38-00001	38-00001	38-00035	38-00035	38-00028	38-00028	38-00028
37-00004	37-00004	37-00029	37-00029	37-00021	37-00021	37-00021
36-00003	36-00003	36-00099	36-00099	36-00011	36-00011	36-00011
35-00002	35-00002	35-00034	35-00034	35-00031	35-00031	35-00031
34-00002	34-00002	34-00021	34-00021	34-00041	34-00041	34-00041
33-00003	33-00003	33-00037	33-00037	33-00028	33-00028	33-00028
32-00003	32-00003	32-00015	32-00015	32-00037	32-00037	32-00037
31-00004	31-00004	31-00045	31-00045	31-00032	31-00032	31-00032
30-00003	30-00003	30-00049	30-00049	30-00035	30-00035	30-00035
29-00001	29-00001	29-00096	29-00096	29-00074	29-00074	29-00074
28-00001	28-00001	28-00046	28-00046	28-00073	28-00073	28-00073
27-00005	27-00005	27-00040	27-00040	27-00064	27-00064	27-00064
26-00001	26-00001	26-00035	26-00035	26-00075	26-00075	26-00075
25-00001	25-00001	25-00031	25-00031	25-00060	25-00060	25-00060
24-00003	24-00003	24-00013	24-00013	24-00024	24-00024	24-00024
23-00003	23-00003	23-00075	23-00075	23-00088	23-00088	23-00088
22-00004	22-00004	22-00038	22-00038	22-00052	22-00052	22-00052
21-00003	21-00003	21-00011	21-00011	21-00030	21-00030	21-00030
20-00003	20-00003	20-00045	20-00045	20-00029	20-00029	20-00029
19-00000	19-00000	19-00042	19-00042	19-00013	19-00013	19-00013
18-00001	18-00001	18-00021	18-00021	18-00014	18-00014	18-00014
17-00002	17-00002	17-00038	17-00038	17-00013	17-00013	17-00013
16-00001	16-00001	16-00041	16-00041	16-00027	16-00027	16-00027
15-00001	15-00001	15-00032	15-00032	15-00055	15-00055	15-00055
14-00001	14-00001	14-00011	14-00011	14-00039	14-00039	14-00039
13-00001	13-00001	13-00010	13-00010	13-00029	13-00029	13-00029
12-00001	12-00001	12-00014	12-00014	12-00047	12-00047	12-00047
11-00000	11-00000	11-00001	11-00001	11-00043	11-00043	11-00043
10-00001	10-00001	10-00015	10-00015	10-00020	10-00020	10-00020
09-00002	09-00002	09-00023	09-00023	09-00024	09-00024	09-00024
08-00003	08-00003	08-00027	08-00027	08-00026	08-00026	08-00026
07-00002	07-00002	07-00024	07-00024	07-00044	07-00044	07-00044
06-00003	06-00003	06-00026	06-00026	06-00017	06-00017	06-00017
05-00003	05-00003	05-00020	05-00020	05-00070	05-00070	05-00070
04-00002	04-00002	04-00013	04-00013	04-00058	04-00058	04-00058
03-00002	03-00002	03-00006	03-00006	03-00037	03-00037	03-00037
02-00001	02-00001	02-00003	02-00003	02-00067	02-00067	02-00067
01-00002	01-00002	01-00004	01-00004	01-00070	01-00070	01-00070
00-00003	00-00003	00-00024	00-00024	00-00030	00-00030	00-00030
00-00000	00-00000	00-00000	00-00000	00-00000	00-00000	00-00000

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Proportional Axial Compression and Normal Pressure Page 2 of 4

[illegible]



## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Proportional Axial Compression and Normal Pressure

Page 3 of 4

DATA No ACP15	DATA No ACP16	DATA No ACP17	DATA No ACP18	DATA No ACP19	DATA No ACP20
17PSIG	18PSIG	19PSIG	20PSIG	21PSIG	22PSIG
112.2000	112.2000	112.2000	112.2000	112.2000	112.2000
63-000131	63-000131	63-000131	63-000131	63-000131	63-000131
62-000130	62-000130	62-000130	62-000130	62-000130	62-000130
61-000129	61-000129	61-000129	61-000129	61-000129	61-000129
60-000128	60-000128	60-000128	60-000128	60-000128	60-000128
59-000127	59-000127	59-000127	59-000127	59-000127	59-000127
58-000126	58-000126	58-000126	58-000126	58-000126	58-000126
57-000125	57-000125	57-000125	57-000125	57-000125	57-000125
56-000124	56-000124	56-000124	56-000124	56-000124	56-000124
55-000123	55-000123	55-000123	55-000123	55-000123	55-000123
54-000122	54-000122	54-000122	54-000122	54-000122	54-000122
53-000121	53-000121	53-000121	53-000121	53-000121	53-000121
52-000120	52-000120	52-000120	52-000120	52-000120	52-000120
51-000119	51-000119	51-000119	51-000119	51-000119	51-000119
50-000118	50-000118	50-000118	50-000118	50-000118	50-000118
49-000117	49-000117	49-000117	49-000117	49-000117	49-000117
48-000116	48-000116	48-000116	48-000116	48-000116	48-000116
47-000115	47-000115	47-000115	47-000115	47-000115	47-000115
46-000114	46-000114	46-000114	46-000114	46-000114	46-000114
45-000113	45-000113	45-000113	45-000113	45-000113	45-000113
44-000112	44-000112	44-000112	44-000112	44-000112	44-000112
43-000111	43-000111	43-000111	43-000111	43-000111	43-000111
42-000110	42-000110	42-000110	42-000110	42-000110	42-000110
41-000109	41-000109	41-000109	41-000109	41-000109	41-000109
40-000108	40-000108	40-000108	40-000108	40-000108	40-000108
39-000107	39-000107	39-000107	39-000107	39-000107	39-000107
38-000106	38-000106	38-000106	38-000106	38-000106	38-000106
37-000105	37-000105	37-000105	37-000105	37-000105	37-000105
36-000104	36-000104	36-000104	36-000104	36-000104	36-000104
35-000103	35-000103	35-000103	35-000103	35-000103	35-000103
34-000102	34-000102	34-000102	34-000102	34-000102	34-000102
33-000101	33-000101	33-000101	33-000101	33-000101	33-000101
32-000100	32-000100	32-000100	32-000100	32-000100	32-000100
31-000099	31-000099	31-000099	31-000099	31-000099	31-000099
30-000098	30-000098	30-000098	30-000098	30-000098	30-000098
29-000097	29-000097	29-000097	29-000097	29-000097	29-000097
28-000096	28-000096	28-000096	28-000096	28-000096	28-000096
27-000095	27-000095	27-000095	27-000095	27-000095	27-000095
26-000094	26-000094	26-000094	26-000094	26-000094	26-000094
25-000093	25-000093	25-000093	25-000093	25-000093	25-000093
24-000092	24-000092	24-000092	24-000092	24-000092	24-000092
23-000091	23-000091	23-000091	23-000091	23-000091	23-000091
22-000090	22-000090	22-000090	22-000090	22-000090	22-000090
21-000089	21-000089	21-000089	21-000089	21-000089	21-000089
20-000088	20-000088	20-000088	20-000088	20-000088	20-000088
19-000087	19-000087	19-000087	19-000087	19-000087	19-000087
18-000086	18-000086	18-000086	18-000086	18-000086	18-000086
17-000085	17-000085	17-000085	17-000085	17-000085	17-000085
16-000084	16-000084	16-000084	16-000084	16-000084	16-000084
15-000083	15-000083	15-000083	15-000083	15-000083	15-000083
14-000082	14-000082	14-000082	14-000082	14-000082	14-000082
13-000081	13-000081	13-000081	13-000081	13-000081	13-000081
12-000080	12-000080	12-000080	12-000080	12-000080	12-000080
11-000079	11-000079	11-000079	11-000079	11-000079	11-000079
10-000078	10-000078	10-000078	10-000078	10-000078	10-000078
9-000077	9-000077	9-000077	9-000077	9-000077	9-000077
8-000076	8-000076	8-000076	8-000076	8-000076	8-000076
7-000075	7-000075	7-000075	7-000075	7-000075	7-000075
6-000074	6-000074	6-000074	6-000074	6-000074	6-000074
5-000073	5-000073	5-000073	5-000073	5-000073	5-000073
4-000072	4-000072	4-000072	4-000072	4-000072	4-000072
3-000071	3-000071	3-000071	3-000071	3-000071	3-000071
2-000070	2-000070	2-000070	2-000070	2-000070	2-000070
1-000069	1-000069	1-000069	1-000069	1-000069	1-000069
0-000068	0-000068	0-000068	0-000068	0-000068	0-000068

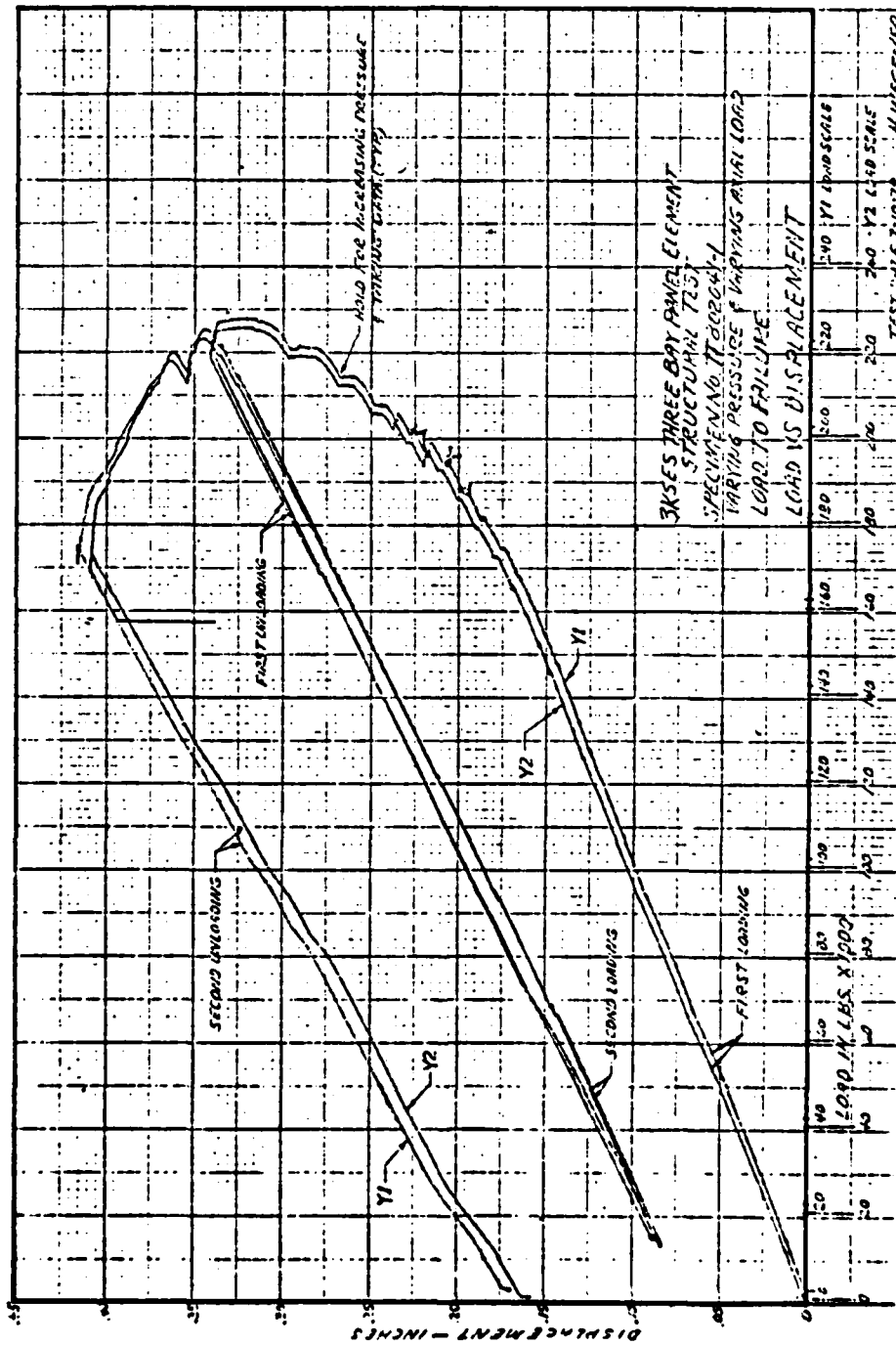
## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Proportional Axial Compression and Normal Pressure Page 4 of 4

PRE TEST R CAL	POST TEST R CAL
83*00065	83*00066
82*00009	82*00009
81*00022	81*00022
80*00123	80*00123
79*00024	79*00024
78*00040	78*00040
77*00007	77*00008
76*00049	76*00044
75*00057	75*00057
74*00005	74*00006
73*00060	73*00061
72*00037	72*00037
71*00031	71*00031
70*00061	70*00080
69*00003	69*00002
68*00050	68*00050
67*00037	67*00038
66*00000	66*00001
65*00017	65*00017
64*00088	64*00085
63*00137	63*00138
62*00071	62*00071
61*00026	61*00026
60*00003	60*00003
59*00730	59*00586
58*01428	58*01425
57*01425	57*01448
56*01426	56*01424
55*01428	55*00056
54*01431	54*01565
53*01428	53*01408
52*01424	52*01478
51*01432	51*01436
50*01424	50*01454
49*0142	49*01445
48*0142	48*01403
47*01427	47*01403
46*01427	46*01514
45*01427	45*00022
44*01430	44*00066
43*01429	43*01402
42*01429	42*01492
41*01430	41*01511
40*01434	40*01431
39*01427	39*01438
38*01428	38*01445
37*01430	37*01410
36*01427	36*01404
35*01427	35*01438
34*01424	34*01432
33*01428	33*01424
32*01431	32*01402
31*01442	31*01529
30*01424	30*01528
29*01422	29*01436
28*01425	28*01409
27*01420	27*01395
26*01425	26*01405
25*01425	25*01414
24*01425	24*01426
23*01423	23*01431
22*01422	22*01413
21*01425	21*01397
20*01425	20*01495
19*01427	19*01514
18*01423	18*01408
17*01427	17*01412
16*01427	16*01403
15*01425	15*01406
14*01425	14*01408
13*01425	13*01439
12*01425	12*01423
11*01424	11*01400
10*01423	10*01392
9*01422	9*01498
8*01421	8*01501
7*01424	7*01476
6*01422	6*01746
5*01421	5*01937
4*01423	4*01432
3*01422	3*01389
2*01423	2*01473
1*01422	1*01436
00*01421	00*01439
01*01360	01*01410
007*97908	007*97908

CALCULATED  
 PANEL AREA = 10.917 IN<sup>2</sup> THREE-BAY ELEMENT COMBINED LOADING TEST  
 AXIAL COMPRESSION & PRESSURE TEST ON TT832041-1 TEST DATE 7-10-79  
 REF. T-1000-7 P. 5.2.5 LOAD TO FAILURE

DATA NO	NOMINAL STRESS PSI	AXIAL LOAD LBS	PRESS USE PSI*	IN. IN.	DIAL IND. E1	DIAL IND. E2	DIAL IND. U3	DIAL IND. U4						
ACP 1	0	0	0	0	100	100	100	200	HYD. CR. PN. OUT					
ACP 12	0	0	0	0					HYD. CR. PN. IN					
ACP 2	1210	13,200	2	4.07	102	102	125	220						
ACP 3	3450	36,200	10	27.36	112	113	129	201						
ACP 4	6450	68,400	14	28.50	117	119	120	195						
ACP 5	10,350	109,500	18	36.65	119	122	120	162						
ACP 6	11,400	125,400	19	38.68	120	123	121	155						
ACP 7	12,040	132,000	20	40.72	120	123	126	149						
ACP 8	12,600	139,600	21	42.76	120	123	125	140						
ACP 9	13,210	145,200	22	44.79	121	123	124	129						
ACP 10	13,810	151,800	23	46.83	121	124	119	112						
ACP 11	14,510	158,400	24	48.86	121	124	119	090						
ACP 12	15,110	165,000	25	50.90	121	124	105	072						
ACP 13	15,720	171,600	26	52.94	121	124	105	058						
ACP 14	16,320	178,200	27	54.97	120	125	104	044						
ACP 15	16,920	184,800	28	57.01	120	125	117	033						
ACP 16	17,520	191,400	29	59.04	120	125	133	021						
ACP 17	18,140	198,000	30	61.08	119	123	241	078						
ACP 18	18,740	204,600	31	63.12	116	122	274	088						
ACP 19	19,350	211,200	32	65.15	115	121	314	103						
ACP 20	19,950	217,800	33	67.19	112	119	375	141						
ACP 21	20,550	224,400**	34	67.22					** MAX. LOAD PRESSURE ATTAINABLE DATA TAKEN AFTER LOAD DROPPED TO 219,100 LBS					
ACP 22	1210	13,200	2	4.07										
ACP 23	18,140	198,000	30	61.08	102	110	498	260						
ACP 24	19,350	211,200	32	65.15	102	109	515	274						
ACP 25	19,950	217,800	33	67.19	101	108	529	283						
ACP 26	20,340	222,000***	33	67.19	098	104	613	420						
									*** MAX. LOAD PRESSURE ATTAINABLE DATA TAKEN AFTER LOAD DROPPED TO 213,500 LBS					
*LOADING SEQUENCE WAS AS FOLLOWS:														
AXIAL LOAD APPLIED THEN PRESSURE APPLIED - THEN DATA TAKEN FOR EACH LOADING INCREMENT														



Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)  
Proportional Axial Compression and Normal Pressure to Failure, Page 1 of 4

**B-735**

## TER073

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Proportional Axial Compression and Normal Pressure to Failure, Page 2 of 4

DATA No. ACP7	DATA No. ACP8	DATA No. ACP9	DATA No. ACP10	DATA No. ACP11	DATA No. ACP12	DATA No. ACP13
20,551.6	21,151.5	22,151.6	23,051.6	24,051.6	25,051.6	26,051.6
132,000	138,600	145,200	151,800	158,400	165,000	171,600
03-00114	03-00114	03-00114	03-00114	03-00114	03-00114	03-00114
02-00054	02-00054	02-00054	02-00054	02-00054	02-00054	02-00054
01-00076	01-00076	01-00076	01-00076	01-00076	01-00076	01-00076
00-00050	00-00050	00-00050	00-00050	00-00050	00-00050	00-00050
79-00002	79-00002	79-00002	79-00002	79-00002	79-00002	79-00002
78-00186	78-00186	78-00186	78-00186	78-00186	78-00186	78-00186
77-00000	77-00000	77-00000	77-00000	77-00000	77-00000	77-00000
76-00050	76-00050	76-00050	76-00050	76-00050	76-00050	76-00050
75-00208	75-00208	75-00208	75-00208	75-00208	75-00208	75-00208
74-00043	74-00043	74-00043	74-00043	74-00043	74-00043	74-00043
73-00104	73-00104	73-00104	73-00104	73-00104	73-00104	73-00104
72-00154	72-00154	72-00154	72-00154	72-00154	72-00154	72-00154
71-00127	71-00127	71-00127	71-00127	71-00127	71-00127	71-00127
70-00012	70-00012	70-00012	70-00012	70-00012	70-00012	70-00012
69-00200	69-00200	69-00200	69-00200	69-00200	69-00200	69-00200
68-00089	68-00089	68-00089	68-00089	68-00089	68-00089	68-00089
67-00015	67-00015	67-00015	67-00015	67-00015	67-00015	67-00015
66-00171	66-00171	66-00171	66-00171	66-00171	66-00171	66-00171
65-00000	65-00000	65-00000	65-00000	65-00000	65-00000	65-00000
64-00046	64-00046	64-00046	64-00046	64-00046	64-00046	64-00046
63-00044	63-00044	63-00044	63-00044	63-00044	63-00044	63-00044
62-00066	62-00066	62-00066	62-00066	62-00066	62-00066	62-00066
61-00131	61-00131	61-00131	61-00131	61-00131	61-00131	61-00131
60-00117	60-00117	60-00117	60-00117	60-00117	60-00117	60-00117
59-00081	59-00081	59-00081	59-00081	59-00081	59-00081	59-00081
58-00003	58-00003	58-00003	58-00003	58-00003	58-00003	58-00003
57-00331	57-00331	57-00331	57-00331	57-00331	57-00331	57-00331
56-00209	56-00209	56-00209	56-00209	56-00209	56-00209	56-00209
55-00203	55-00203	55-00203	55-00203	55-00203	55-00203	55-00203
54-00000	54-00000	54-00000	54-00000	54-00000	54-00000	54-00000
53-00253	53-00253	53-00253	53-00253	53-00253	53-00253	53-00253
52-00414	52-00414	52-00414	52-00414	52-00414	52-00414	52-00414
51-00159	51-00159	51-00159	51-00159	51-00159	51-00159	51-00159
50-00217	50-00217	50-00217	50-00217	50-00217	50-00217	50-00217
49-00081	49-00081	49-00081	49-00081	49-00081	49-00081	49-00081
48-00200	48-00200	48-00200	48-00200	48-00200	48-00200	48-00200
47-00207	47-00207	47-00207	47-00207	47-00207	47-00207	47-00207
46-00035	46-00035	46-00035	46-00035	46-00035	46-00035	46-00035
45-00330	45-00330	45-00330	45-00330	45-00330	45-00330	45-00330
44-00130	44-00130	44-00130	44-00130	44-00130	44-00130	44-00130
43-00225	43-00225	43-00225	43-00225	43-00225	43-00225	43-00225
42-00104	42-00104	42-00104	42-00104	42-00104	42-00104	42-00104
41-00080	41-00080	41-00080	41-00080	41-00080	41-00080	41-00080
40-00127	40-00127	40-00127	40-00127	40-00127	40-00127	40-00127
39-00304	39-00304	39-00304	39-00304	39-00304	39-00304	39-00304
38-00124	38-00124	38-00124	38-00124	38-00124	38-00124	38-00124
37-00120	37-00120	37-00120	37-00120	37-00120	37-00120	37-00120
36-00175	36-00175	36-00175	36-00175	36-00175	36-00175	36-00175
35-00161	35-00161	35-00161	35-00161	35-00161	35-00161	35-00161
34-00253	34-00253	34-00253	34-00253	34-00253	34-00253	34-00253
33-00113	33-00113	33-00113	33-00113	33-00113	33-00113	33-00113
32-00116	32-00116	32-00116	32-00116	32-00116	32-00116	32-00116
31-00018	31-00018	31-00018	31-00018	31-00018	31-00018	31-00018
30-00204	30-00204	30-00204	30-00204	30-00204	30-00204	30-00204
29-00161	29-00161	29-00161	29-00161	29-00161	29-00161	29-00161
28-00103	28-00103	28-00103	28-00103	28-00103	28-00103	28-00103
27-00111	27-00111	27-00111	27-00111	27-00111	27-00111	27-00111
26-00105	26-00105	26-00105	26-00105	26-00105	26-00105	26-00105
25-00087	25-00087	25-00087	25-00087	25-00087	25-00087	25-00087
24-00114	24-00114	24-00114	24-00114	24-00114	24-00114	24-00114
23-00127	23-00127	23-00127	23-00127	23-00127	23-00127	23-00127
22-00133	22-00133	22-00133	22-00133	22-00133	22-00133	22-00133
21-00124	21-00124	21-00124	21-00124	21-00124	21-00124	21-00124
20-00164	20-00164	20-00164	20-00164	20-00164	20-00164	20-00164
19-00334	19-00334	19-00334	19-00334	19-00334	19-00334	19-00334
18-00252	18-00252	18-00252	18-00252	18-00252	18-00252	18-00252
17-00131	17-00131	17-00131	17-00131	17-00131	17-00131	17-00131
16-00130	16-00130	16-00130	16-00130	16-00130	16-00130	16-00130
15-00121	15-00121	15-00121	15-00121	15-00121	15-00121	15-00121
14-00100	14-00100	14-00100	14-00100	14-00100	14-00100	14-00100
13-00103	13-00103	13-00103	13-00103	13-00103	13-00103	13-00103
12-00107	12-00107	12-00107	12-00107	12-00107	12-00107	12-00107
11-00093	11-00093	11-00093	11-00093	11-00093	11-00093	11-00093
10-00133	10-00133	10-00133	10-00133	10-00133	10-00133	10-00133
09-00007	09-00007	09-00007	09-00007	09-00007	09-00007	09-00007
08-00537	08-00537	08-00537	08-00537	08-00537	08-00537	08-00537
07-00040	07-00040	07-00040	07-00040	07-00040	07-00040	07-00040
06-00180	06-00180	06-00180	06-00180	06-00180	06-00180	06-00180
05-00020	05-00020	05-00020	05-00020	05-00020	05-00020	05-00020
04-00007	04-00007	04-00007	04-00007	04-00007	04-00007	04-00007
03-00152	03-00152	03-00152	03-00152	03-00152	03-00152	03-00152
02-00307	02-00307	02-00307	02-00307	02-00307	02-00307	02-00307
01-00051	01-00051	01-00051	01-00051	01-00051	01-00051	01-00051
00-00232	00-00232	00-00232	00-00232	00-00232	00-00232	00-00232
01-00300	01-00300	01-00300	01-00300	01-00300	01-00300	01-00300
00-00760	00-00760	00-00760	00-00760	00-00760	00-00760	00-00760

## TERO73

Test Data - 3-Bay Element No. TT802041-1 (All stiffeners straight)

Proportional Axial Compression and Normal Pressure to Failure, Page 3 of 4

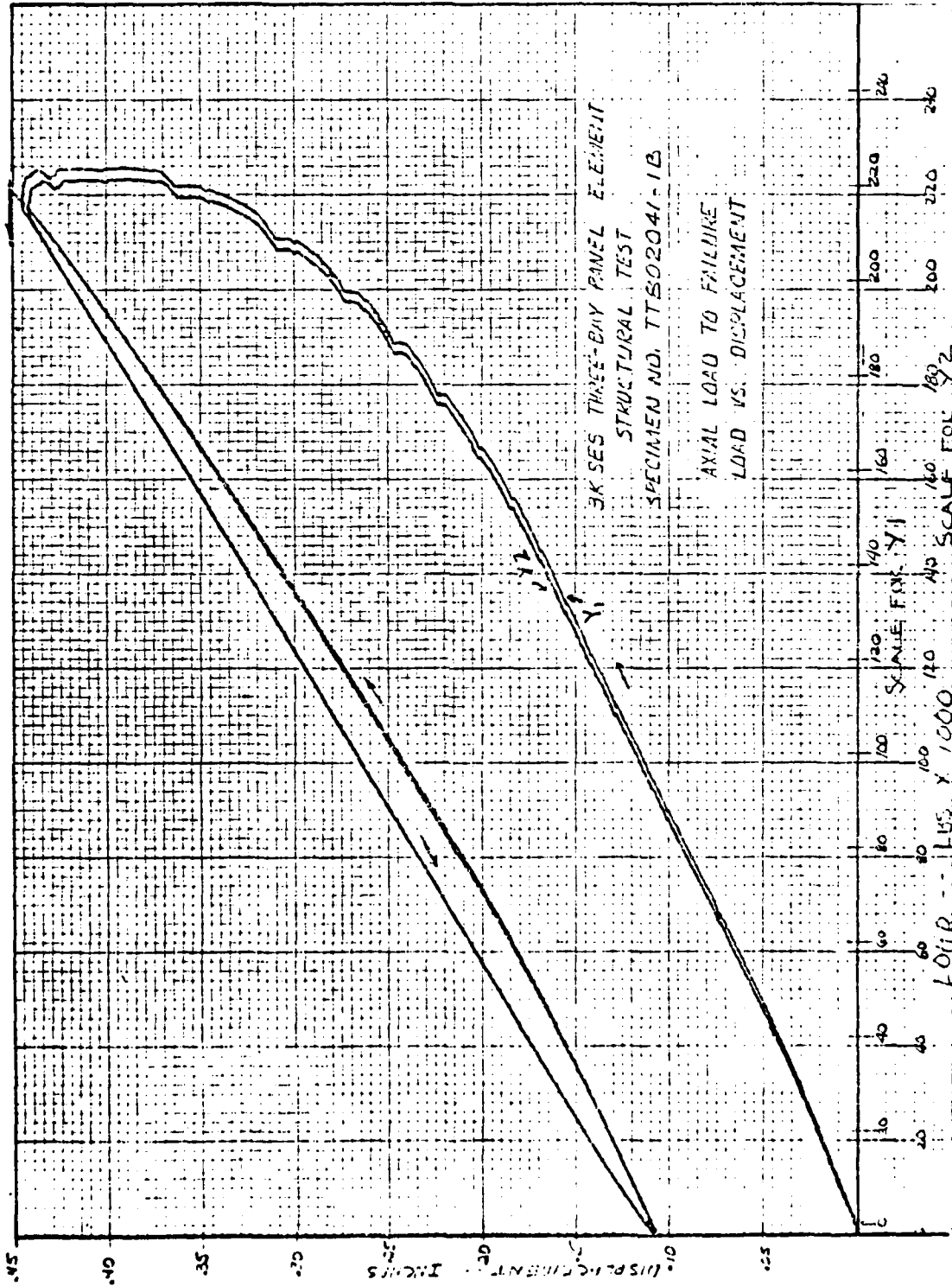
DATA No. ACP 14	DATA No. ACP 15	DATA No. ACP 16	DATA No. ACP 17	DATA No. ACP 18	DATA No. ACP 19	DATA No. ACP 20
27 PSI 178,200#	28 PSI 184,800#	29 PSI 191,400#	30 PSI 198,000#	31 PSI 204,600#	32 PSI 211,200#	33 PSI 217,800#
03-00131	03-00131	03-00131	03-00131	03-00131	03-00131	03-00131
02-00067	02-00067	02-00067	02-00067	02-00067	02-00067	02-00067
01-00101	01-00101	01-00101	01-00101	01-00101	01-00101	01-00101
00-00001	00-00001	00-00001	00-00001	00-00001	00-00001	00-00001
14-00017	14-00017	14-00017	14-00017	14-00017	14-00017	14-00017
18-00244	18-00244	18-00244	18-00244	18-00244	18-00244	18-00244
77-00006	77-00006	77-00006	77-00006	77-00006	77-00006	77-00006
16-00126	16-00126	16-00126	16-00126	16-00126	16-00126	16-00126
75-00032	75-00032	75-00032	75-00032	75-00032	75-00032	75-00032
14-00094	14-00094	14-00094	14-00094	14-00094	14-00094	14-00094
13-00142	13-00142	13-00142	13-00142	13-00142	13-00142	13-00142
12-00015	12-00015	12-00015	12-00015	12-00015	12-00015	12-00015
11-00174	11-00174	11-00174	11-00174	11-00174	11-00174	11-00174
10-00093	10-00093	10-00093	10-00093	10-00093	10-00093	10-00093
09-00305	09-00305	09-00305	09-00305	09-00305	09-00305	09-00305
08-00106	08-00106	08-00106	08-00106	08-00106	08-00106	08-00106
07-00055	07-00055	07-00055	07-00055	07-00055	07-00055	07-00055
06-00243	06-00243	06-00243	06-00243	06-00243	06-00243	06-00243
05-00044	05-00044	05-00044	05-00044	05-00044	05-00044	05-00044
04-00057	04-00057	04-00057	04-00057	04-00057	04-00057	04-00057
03-00051	03-00051	03-00051	03-00051	03-00051	03-00051	03-00051
02-00146	02-00146	02-00146	02-00146	02-00146	02-00146	02-00146
01-00146	01-00146	01-00146	01-00146	01-00146	01-00146	01-00146
00-01702	00-01702	00-01702	00-01702	00-01702	00-01702	00-01702
09-00732	09-00732	09-00732	09-00732	09-00732	09-00732	09-00732
08-00003	08-00003	08-00003	08-00003	08-00003	08-00003	08-00003
07-00335	07-00335	07-00335	07-00335	07-00335	07-00335	07-00335
06-10333	06-10333	06-10333	06-10333	06-10333	06-10333	06-10333
05-03926	05-03926	05-03926	05-03926	05-03926	05-03926	05-03926
04-00102	04-00102	04-00102	04-00102	04-00102	04-00102	04-00102
03-00730	03-00730	03-00730	03-00730	03-00730	03-00730	03-00730
02-00246	02-00246	02-00246	02-00246	02-00246	02-00246	02-00246
01-00240	01-00240	01-00240	01-00240	01-00240	01-00240	01-00240
00-00477	00-00477	00-00477	00-00477	00-00477	00-00477	00-00477
09-00021	09-00021	09-00021	09-00021	09-00021	09-00021	09-00021
08-00241	08-00241	08-00241	08-00241	08-00241	08-00241	08-00241
07-00305	07-00305	07-00305	07-00305	07-00305	07-00305	07-00305
06-00304	06-00304	06-00304	06-00304	06-00304	06-00304	06-00304
05-00239	05-00239	05-00239	05-00239	05-00239	05-00239	05-00239
04-00141	04-00141	04-00141	04-00141	04-00141	04-00141	04-00141
03-00172	03-00172	03-00172	03-00172	03-00172	03-00172	03-00172
02-00102	02-00102	02-00102	02-00102	02-00102	02-00102	02-00102
01-00034	01-00034	01-00034	01-00034	01-00034	01-00034	01-00034
00-00018	00-00018	00-00018	00-00018	00-00018	00-00018	00-00018
39-00562	39-00562	39-00562	39-00562	39-00562	39-00562	39-00562
38-00244	38-00244	38-00244	38-00244	38-00244	38-00244	38-00244
37-00153	37-00153	37-00153	37-00153	37-00153	37-00153	37-00153
36-00415	36-00415	36-00415	36-00415	36-00415	36-00415	36-00415
35-00345	35-00345	35-00345	35-00345	35-00345	35-00345	35-00345
34-00250	34-00250	34-00250	34-00250	34-00250	34-00250	34-00250
33-00140	33-00140	33-00140	33-00140	33-00140	33-00140	33-00140
32-00157	32-00157	32-00157	32-00157	32-00157	32-00157	32-00157
31-00085	31-00085	31-00085	31-00085	31-00085	31-00085	31-00085
30-00309	30-00309	30-00309	30-00309	30-00309	30-00309	30-00309
29-00107	29-00107	29-00107	29-00107	29-00107	29-00107	29-00107
28-00030	28-00030	28-00030	28-00030	28-00030	28-00030	28-00030
27-00004	27-00004	27-00004	27-00004	27-00004	27-00004	27-00004
26-00050	26-00050	26-00050	26-00050	26-00050	26-00050	26-00050
25-00132	25-00132	25-00132	25-00132	25-00132	25-00132	25-00132
24-00061	24-00061	24-00061	24-00061	24-00061	24-00061	24-00061
23-00152	23-00152	23-00152	23-00152	23-00152	23-00152	23-00152
22-00018	22-00018	22-00018	22-00018	22-00018	22-00018	22-00018
21-00237	21-00237	21-00237	21-00237	21-00237	21-00237	21-00237
20-00001	20-00001	20-00001	20-00001	20-00001	20-00001	20-00001
19-00006	19-00006	19-00006	19-00006	19-00006	19-00006	19-00006
18-00069	18-00069	18-00069	18-00069	18-00069	18-00069	18-00069
17-00107	17-00107	17-00107	17-00107	17-00107	17-00107	17-00107
16-00205	16-00205	16-00205	16-00205	16-00205	16-00205	16-00205
15-00139	15-00139	15-00139	15-00139	15-00139	15-00139	15-00139
14-00213	14-00213	14-00213	14-00213	14-00213	14-00213	14-00213
13-00303	13-00303	13-00303	13-00303	13-00303	13-00303	13-00303
12-00030	12-00030	12-00030	12-00030	12-00030	12-00030	12-00030
11-00140	11-00140	11-00140	11-00140	11-00140	11-00140	11-00140
10-00217	10-00217	10-00217	10-00217	10-00217	10-00217	10-00217
09-00093	09-00093	09-00093	09-00093	09-00093	09-00093	09-00093
08-00030	08-00030	08-00030	08-00030	08-00030	08-00030	08-00030
07-00153	07-00153	07-00153	07-00153	07-00153	07-00153	07-00153
06-00440	06-00440	06-00440	06-00440	06-00440	06-00440	06-00440
05-00399	05-00399	05-00399	05-00399	05-00399	05-00399	05-00399
04-00014	04-00014	04-00014	04-00014	04-00014	04-00014	04-00014
03-00251	03-00251	03-00251	03-00251	03-00251	03-00251	03-00251
02-00073	02-00073	02-00073	02-00073	02-00073	02-00073	02-00073
01-00003	01-00003	01-00003	01-00003	01-00003	01-00003	01-00003
00-00297	00-00297	00-00297	00-00297	00-00297	00-00297	00-00297
09-00290	09-00290	09-00290	09-00290	09-00290	09-00290	09-00290
08-00190	08-00190	08-00190	08-00190	08-00190	08-00190	08-00190





TEST DATE 9-6-79

MAX LOB



AD-A087 438

ROHR MARINE INC NATIONAL CITY CA  
SURFACE EFFECT SHIP STRUCTURAL PRODUCIBILITY. PART 3.(U)  
MAY 80

F/6 13/10

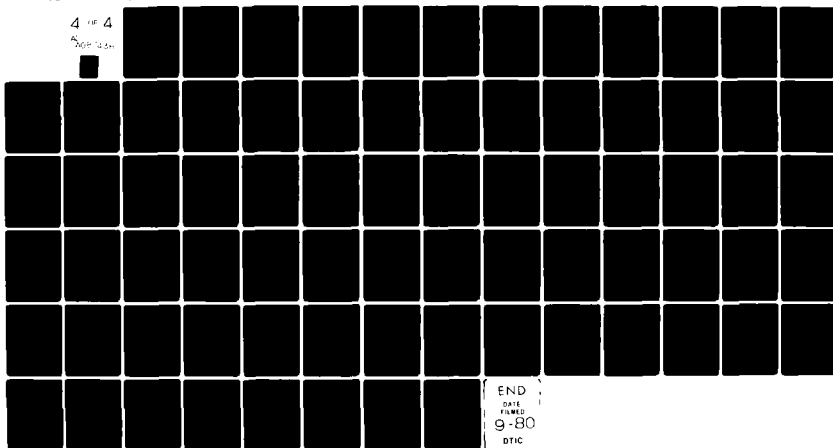
N00024-77-C-2032

NL

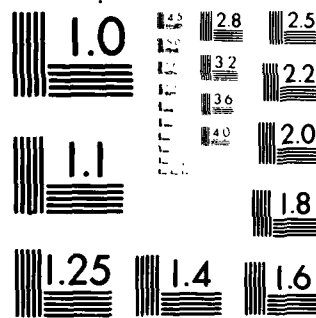
UNCLASSIFIED

4 OF 4

2000000000



END  
DATE  
FILMED  
9-80  
DTIC



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

Test Data - 3-Bay Element No. TT802041-1B (All stiffeners straight)  
Axial Compression to Failure Page 1 of 3

Page 1 of 3

**B-741**

Test Data - 3-Bay Element No. TT802041-1B (All stiffeners straight)

### Axial Compression to Failure

Page 2 of 3

[illegible]



### THREE-BAY ELEMENT COMBINED LOADING TEST

NORMAL PRESSURE TEST W/TT 802041-3

REF ID: A66177

DATA NO.	PRESSURE		DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4
	PSIG	IN. Hg.				
P1	0	0	---	---	.100	.100
P2	2	4.07	---	---	.132	.120
P3	4	8.14	---	---	.137	.127
P4	6	12.22	---	---	.140	.130
P5	8	16.29	---	---	.142	.131
P6	2	4.07	---	---	.135	.127
P7	9	18.32	---	---	.143	.129
P8	10	20.36	---	---	.145	.127
P9	11	22.40	---	---	.146	.126
P10	12	24.43	---	---	.147	.124
P11	2	4.07	---	---	.135	.128
P12	13	26.47	---	---	.148	.123
P13	14	28.50	---	---	.150	.122
P14	15	30.54	---	---	.151	.123
P15	16	32.58	---	---	.153	.124
P16	17	34.61	---	---	.154	.125
P17	18	36.65	---	---	.156	.127
P18	19	38.68	---	---	.156	.128
P19	2	4.07	---	---	.138	.134
P20	0	0	---	---	.105	.107





## TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Normal Pressure

Page 2 of 4

DATA No. P8	DATA No. P9	DATA No. P10	DATA No. P11	DATA No. P12	DATA No. P13	DATA No. P14
10 PSIG	11 PSIG	12 PSIG	2 PSIG	13 PSIG	14 PSIG	15 PSIG
03-00094	03-00102	03-00110	03-00046	03-00117	03-00126	03-00132
02-00051	02-00054	02-00056	02-00042	02-00057	02-00058	02-00054
01-00059	01-00062	01-00063	01-00035	01-00071	01-00075	01-00075
00-00044	00-00044	00-00043	00-00035	00-00049	00-00052	00-00053
79-00004	79-00005	79-00004	79-00004	79-00006	79-00009	79-00009
78-00004	78-00012	78-00012	78-00003	78-00013	78-00013	78-00013
77-00002	77-00002	77-00005	77-00001	77-00007	77-00006	77-00007
76-00026	76-00030	76-00031	76-00003	76-00035	76-00037	76-00039
75-00012	75-00012	75-00014	75-00007	75-00050	75-00054	75-00054
74-00009	74-00011	74-00012	74-00009	74-00014	74-00013	74-00014
73-00000	73-00006	73-00005	73-00002	73-00017	73-00016	73-00016
72-00014	72-00012	72-00013	72-00002	72-00014	72-00014	72-00014
71-00008	71-00002	71-00001	71-00007	71-00005	71-00010	71-00010
70-00004	70-00005	70-00006	70-00006	70-00006	70-00005	70-00005
69-00120	69-00124	69-00137	69-00052	69-00146	69-00156	69-00164
68-00030	68-00034	68-00034	68-00011	68-00038	68-00043	68-00043
67-00004	67-00004	67-00006	67-00004	67-00007	67-00008	67-00008
66-00104	66-00112	66-00115	66-00004	66-00127	66-00136	66-00145
65-00004	65-00008	65-00008	65-00008	65-00010	65-00010	65-00011
64-00035	64-00037	64-00039	64-00026	64-00042	64-00044	64-00046
63-00027	63-00031	63-00031	63-00033	63-00033	63-00035	63-00036
62-00045	62-00044	62-00044	62-00026	62-00056	62-00059	62-00064
61-00073	61-00032	61-00027	61-00030	61-00046	61-00103	61-00110
60-00003	60-00004	60-00003	60-00004	60-00003	60-00004	60-00003
59-00071	59-00036	59-00037	59-00066	59-00034	59-00076	59-00080
58-00003	58-00002	58-00001	58-00001	58-00002	58-00000	58-00000
57-00255	57-00039	57-00023	57-00015	57-00038	57-00037	57-00015
56-00002	56-00048	56-00079	56-00006	56-00106	56-00126	56-00134
55-00386	55-00063	55-00046	55-00006	55-00023	55-00049	55-00076
54-00327	54-00036	54-00069	54-00026	54-00050	54-00047	54-00052
53-00003	53-00110	53-00123	53-00021	53-00135	53-00143	53-00144
52-00043	52-00073	52-00032	52-00014	52-00023	52-00044	52-00049
51-00073	51-00070	51-00059	51-00010	51-00040	51-00013	51-00010
50-00392	50-00024	50-00040	50-00009	50-00045	50-00050	50-00053
49-00304	49-00044	49-00031	49-00020	49-00020	49-00055	49-00050
48-00581	48-00061	48-00074	48-00004	48-00021	48-00041	48-00041
47-00084	47-00000	47-00111	47-00010	47-00124	47-00132	47-00132
46-00214	46-00044	46-00027	46-00002	46-00033	46-00032	46-00031
45-00047	45-00072	45-00041	45-00003	45-00013	45-00047	45-00078
44-00085	44-00052	44-00093	44-00006	44-00086	44-00141	44-00141
43-00120	43-00012	43-00013	43-00000	43-00144	43-00155	43-00166
42-00003	42-00034	42-00073	42-00021	42-00070	42-00072	42-00073
41-00040	41-00044	41-00075	41-00019	41-00049	41-00052	41-00054
40-00559	40-00020	40-00076	40-00011	40-00076	40-00075	40-00075
39-00046	39-00033	39-00034	39-00033	39-00043	39-00045	39-00047
38-00141	38-00044	38-00056	38-00003	38-00162	38-00170	38-00170
37-00054	37-00056	37-00059	37-00023	37-00062	37-00064	37-00066
36-00079	36-00047	36-00014	36-00146	36-00080	36-00048	36-00048
35-00050	35-00072	35-00083	35-00031	35-00047	35-00048	35-00048
34-00076	34-00056	34-00035	34-00050	34-00106	34-00104	34-00104
33-00079	33-00064	33-00047	33-00013	33-00103	33-00113	33-00113
32-00212	32-00230	32-00246	32-00067	32-00262	32-00262	32-00262
31-00597	31-00039	31-00061	31-00021	31-00722	31-00744	31-00744
30-00076	30-00041	30-00102	30-00014	30-00104	30-00133	30-00133
29-00047	29-00033	29-00017	29-00020	29-00119	29-00119	29-00119
28-00056	28-00050	28-00144	28-00021	28-00121	28-00133	28-00133
27-00049	27-00074	27-00077	27-00030	27-00082	27-00086	27-00086
26-00110	26-00114	26-00125	26-00000	26-00133	26-00140	26-00147
25-00582	25-00046	25-00070	25-00044	25-00075	25-00084	25-00084
24-00072	24-00055	24-00075	24-00009	24-00027	24-00079	24-00079
23-00046	23-00020	23-00001	23-00027	23-00144	23-00141	23-00141
22-00001	22-00076	22-00117	22-00005	22-00127	22-00137	22-00141
21-00226	21-00044	21-00042	21-00078	21-00081	21-00100	21-00100
20-00000	20-00046	20-00102	20-00031	20-00109	20-00112	20-00112
19-00064	19-00012	19-00073	19-00024	19-00012	19-00065	19-00065
18-00065	18-00040	18-00026	18-00011	18-00100	18-00108	18-00108
17-00029	17-00019	17-00040	17-00010	17-00040	17-00114	17-00114
16-00100	16-00020	16-00013	16-00072	16-00027	16-00041	16-00041
15-00067	15-00049	15-00072	15-00034	15-00074	15-00076	15-00077
14-00070	14-00044	14-00010	14-00130	14-00088	14-00098	14-00101
13-00050	13-00071	13-00070	13-00011	13-00046	13-00013	13-00013
12-00501	12-00056	12-00013	12-00066	12-00066	12-00073	12-00073
11-00019	11-00040	11-00010	11-00031	11-00051	11-00010	11-00010
10-00193	10-00016	10-00016	10-00044	10-00108	10-00201	10-00215
09-00040	09-00032	09-00049	09-00049	09-00043	09-00043	09-00043
08-00088	08-00077	08-00078	08-00032	08-00039	08-00042	08-00047
07-00362	07-00036	07-00032	07-00040	07-00040	07-00042	07-00044
06-01020	06-01125	06-01210	06-01210	06-01304	06-01345	06-01345
05-00098	05-00074	05-00049	05-00047	05-00102	05-00108	05-00108
04-00072	04-00040	04-00071	04-00047	04-00043	04-00117	04-00117
03-00320	03-00351	03-00381	03-00381	03-00413	03-00445	03-00445
02-00357	02-00371	02-00376	02-00376	02-00404	02-00445	02-00445
01-00073	01-00080	01-00082	01-00082	01-00099	01-00108	01-00108
00-01121	00-01121	00-01121	00-01121	00-01121	00-01121	00-01121
01359180	01403000	01403200	01403200	01412200	01422200	01432200
07167000	06718700	06718700	06718700	06718700	06718700	06718700

## TER073

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Normal Pressure

Page 3 of 4

DATA No. P15	DATA No. P16	DATA No. P17	DATA No. P18	DATA No. P19	DATA No. P20
16 PSIG	17 PSIG	18 PSIG	19 PSIG	20 PSIG	0 PSIG
01-000139	01-000144	01-000150	01-000156	01-000162	01-000168
02-000140	02-000145	02-000151	02-000157	02-000163	02-000169
03-000141	03-000146	03-000152	03-000158	03-000164	03-000170
04-000142	04-000147	04-000153	04-000159	04-000165	04-000171
05-000143	05-000148	05-000154	05-000160	05-000166	05-000172
06-000144	06-000149	06-000155	06-000161	06-000167	06-000173
07-000145	07-000150	07-000156	07-000162	07-000168	07-000174
08-000146	08-000151	08-000157	08-000163	08-000169	08-000175
09-000147	09-000152	09-000158	09-000164	09-000170	09-000176
10-000148	10-000153	10-000159	10-000165	10-000171	10-000177
11-000149	11-000154	11-000160	11-000166	11-000172	11-000178
12-000150	12-000155	12-000161	12-000167	12-000173	12-000179
13-000151	13-000156	13-000162	13-000168	13-000174	13-000180
14-000152	14-000157	14-000163	14-000169	14-000175	14-000181
15-000153	15-000158	15-000164	15-000170	15-000176	15-000182
16-000154	16-000159	16-000165	16-000171	16-000177	16-000183
17-000155	17-000160	17-000166	17-000172	17-000178	17-000184
18-000156	18-000161	18-000167	18-000173	18-000179	18-000185
19-000157	19-000162	19-000168	19-000174	19-000180	19-000186
20-000158	20-000163	20-000169	20-000175	20-000181	20-000187
21-000159	21-000164	21-000170	21-000176	21-000182	21-000188
22-000160	22-000165	22-000171	22-000177	22-000183	22-000189
23-000161	23-000166	23-000172	23-000178	23-000184	23-000190
24-000162	24-000167	24-000173	24-000179	24-000185	24-000191
25-000163	25-000168	25-000174	25-000180	25-000186	25-000192
26-000164	26-000169	26-000175	26-000181	26-000187	26-000193
27-000165	27-000170	27-000176	27-000182	27-000188	27-000194
28-000166	28-000171	28-000177	28-000183	28-000189	28-000195
29-000167	29-000172	29-000178	29-000184	29-000190	29-000196
30-000168	30-000173	30-000179	30-000185	30-000191	30-000197
31-000169	31-000174	31-000180	31-000186	31-000192	31-000198
32-000170	32-000175	32-000181	32-000187	32-000193	32-000199
33-000171	33-000176	33-000182	33-000188	33-000194	33-000200
34-000172	34-000177	34-000183	34-000189	34-000195	34-000201
35-000173	35-000178	35-000184	35-000190	35-000196	35-000202
36-000174	36-000179	36-000185	36-000191	36-000197	36-000203
37-000175	37-000180	37-000186	37-000192	37-000198	37-000204
38-000176	38-000181	38-000187	38-000193	38-000199	38-000205
39-000177	39-000182	39-000188	39-000194	39-000200	39-000206
40-000178	40-000183	40-000189	40-000195	40-000201	40-000207
41-000179	41-000184	41-000190	41-000196	41-000202	41-000208
42-000180	42-000185	42-000191	42-000197	42-000203	42-000209
43-000181	43-000186	43-000192	43-000198	43-000204	43-000210
44-000182	44-000187	44-000193	44-000199	44-000205	44-000211
45-000183	45-000188	45-000194	45-000200	45-000206	45-000212
46-000184	46-000189	46-000195	46-000201	46-000207	46-000213
47-000185	47-000190	47-000196	47-000202	47-000208	47-000214
48-000186	48-000191	48-000197	48-000203	48-000209	48-000215
49-000187	49-000192	49-000198	49-000204	49-000210	49-000216
50-000188	50-000193	50-000199	50-000205	50-000211	50-000217
51-000189	51-000194	51-000200	51-000206	51-000212	51-000218
52-000190	52-000195	52-000201	52-000207	52-000213	52-000219
53-000191	53-000196	53-000202	53-000208	53-000214	53-000220
54-000192	54-000197	54-000203	54-000209	54-000215	54-000221
55-000193	55-000198	55-000204	55-000210	55-000216	55-000222
56-000194	56-000199	56-000205	56-000211	56-000217	56-000223
57-000195	57-000200	57-000206	57-000212	57-000218	57-000224
58-000196	58-000201	58-000207	58-000213	58-000219	58-000225
59-000197	59-000202	59-000208	59-000214	59-000220	59-000226
60-000198	60-000203	60-000209	60-000215	60-000221	60-000227
61-000199	61-000204	61-000210	61-000216	61-000222	61-000228
62-000200	62-000205	62-000211	62-000217	62-000223	62-000229
63-000201	63-000206	63-000212	63-000218	63-000224	63-000230
64-000202	64-000207	64-000213	64-000219	64-000225	64-000231
65-000203	65-000208	65-000214	65-000220	65-000226	65-000232
66-000204	66-000209	66-000215	66-000221	66-000227	66-000233
67-000205	67-000210	67-000216	67-000222	67-000228	67-000234
68-000206	68-000211	68-000217	68-000223	68-000229	68-000235
69-000207	69-000212	69-000218	69-000224	69-000230	69-000236
70-000208	70-000213	70-000219	70-000225	70-000231	70-000237
71-000209	71-000214	71-000220	71-000226	71-000232	71-000238
72-000210	72-000215	72-000221	72-000227	72-000233	72-000239
73-000211	73-000216	73-000222	73-000228	73-000234	73-000240
74-000212	74-000217	74-000223	74-000229	74-000235	74-000241
75-000213	75-000218	75-000224	75-000230	75-000236	75-000242
76-000214	76-000219	76-000225	76-000231	76-000237	76-000243
77-000215	77-000220	77-000226	77-000232	77-000238	77-000244
78-000216	78-000221	78-000227	78-000233	78-000239	78-000245
79-000217	79-000222	79-000228	79-000234	79-000240	79-000246
80-000218	80-000223	80-000229	80-000235	80-000241	80-000247
81-000219	81-000224	81-000230	81-000236	81-000242	81-000248
82-000220	82-000225	82-000231	82-000237	82-000243	82-000249
83-000221	83-000226	83-000232	83-000238	83-000244	83-000250
84-000222	84-000227	84-000233	84-000239	84-000245	84-000251
85-000223	85-000228	85-000234	85-000240	85-000246	85-000252
86-000224	86-000229	86-000235	86-000241	86-000247	86-000253
87-000225	87-000230	87-000236	87-000242	87-000248	87-000254
88-000226	88-000231	88-000237	88-000243	88-000249	88-000255
89-000227	89-000232	89-000238	89-000244	89-000250	89-000256
90-000228	90-000233	90-000239	90-000245	90-000251	90-000257
91-000229	91-000234	91-000240	91-000246	91-000252	91-000258
92-000230	92-000235	92-000241	92-000247	92-000253	92-000259
93-000231	93-000236	93-000242	93-000248	93-000254	93-000260
94-000232	94-000237	94-000243	94-000249	94-000255	94-000261
95-000233	95-000238	95-000244	95-000250	95-000256	95-000262
96-000234	96-000239	96-000245	96-000251	96-000257	96-000263
97-000235	97-000240	97-000246	97-000252	97-000258	97-000264
98-000236	98-000241	98-000247	98-000253	98-000259	98-000265
99-000237	99-000242	99-000248	99-000254	99-000260	99-000266
100-000238	100-000243	100-000249	100-000255	100-000261	100-000267

## TER073

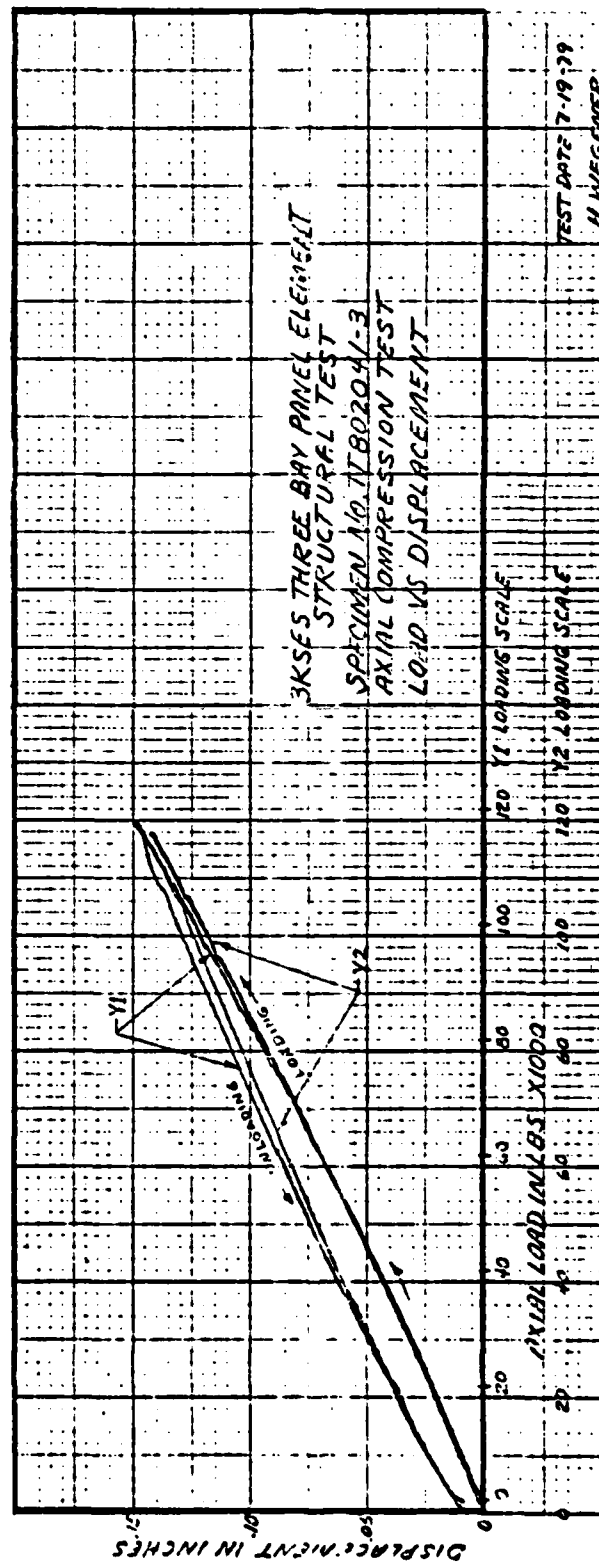
Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Normal Pressure

Page 4 of 4

PRE TEST R CAL	POST TEST R CAL
03-00013	03-00014
02-00095	02-00095
01-00107	01-00106
00-00065	00-00066
79-00343	79-00344
78-00031	78-00030
77-00030	77-00031
76-00069	76-00068
75-00041	75-00040
74-00564	74-00565
73-00080	73-00079
72-00034	72-00034
71-00017	71-00017
70-00302	70-00303
69-00077	69-00076
68-00427	68-00428
67-00356	67-00358
66-00046	66-00047
65-00017	65-00016
64-00075	64-00077
63-00167	63-00166
62-00050	62-00051
61-00023	61-00023
60-00002	60-00002
59-01083	59-01083
58-01431	58-01428
57-01427	57-01434
56-01444	56-01777
55-01437	55-01237
54-01425	54-01433
53-01442	53-01709
52-01440	52-01352
51-01426	51-01435
50-01431	50-01420
49-01425	49-01433
48-01434	48-01413
47-01439	47-01522
46-01424	46-01434
45-01434	45-01237
44-01441	44-01926
43-01432	43-01422
42-01420	42-01460
41-01422	41-01462
40-01429	40-01432
39-01441	39-01444
38-01434	38-01447
37-01431	37-01426
36-01435	36-01417
35-01420	35-01439
34-01427	34-01427
33-01435	33-01436
32-01437	32-01423
31-01435	31-01474
30-01423	30-01475
29-01425	29-01530
28-01433	28-01367
27-01430	27-01419
26-01427	26-01419
25-01430	25-01416
24-01426	24-01434
23-01420	23-01544
22-01432	22-01361
21-01433	21-01420
20-01417	20-01470
19-01427	19-01461
18-01422	18-01413
17-01430	17-01445
16-01428	16-01413
15-01427	15-01419
14-01429	14-01422
13-01419	13-01431
12-01422	12-01416
11-01426	11-01437
10-01426	10-01411
09-01429	09-01455
08-01422	08-01473
07-01424	07-01435
06-01421	06-01449
05-01423	05-01478
04-01421	04-01422
03-01423	03-01419
02-01427	02-01439
01-01426	01-01417
00-01422	00-01439
013256760	013256760
067107900	067107900

**CALCULATED**      **THREE-BAY ELEMENT COMBINED LOADING TEST**  
**PANEL AREA 10.76 IN<sup>2</sup>**      **AXIAL COMPRESSION TEST ON TT 802041-3**      **TEST DATE 7-19-79**  
**REF. TP00017P.3.5.2.2 (3/8" STIFFENER OFFSET)**

DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. PIN IN	HYD. CYL. PIN OUT
AC1	0	0	.100	.100	.100	.100		
AC1a	0	0	.100	.100	.100	.100		
AC2	2,000	21,540	.102	.102	.104	.101		
AC3	4,000	43,070	.107	.107	.110	.099		
<del>AC4</del>	<del>5,000</del>	<del>53,940</del>						
AC5	6,000	64,610	.112	.114	.119	.096		
AC6	7,000	75,380	.115	.119	.124	.094		
AC7	8,000	86,140	.119	.122	.129	.092		
AC8	9,000	96,910	.122	.126	.134	.091		
AC9	10,000	107,680	.125	.130	.142	.091		
AC10	11,000	118,450	.129	.133	.150	.091		
AC11	2,000	21,540	.115	.118	.102	.090		
AC12	0	0	.107	.107	.097	.098	HYD. CYL. PIN IN	
AC13	0	0	.107	.107	.095	.098	HYD. CYL. PIN OUT	



## TER073

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression

Page 1 of 3

DATA No. AC1 DATA No. AC2

DATA No. AC3 DATA No. AC4

DATA No. AC5 DATA No. AC6

DATA No. AC7

DATA No. AC1	DATA No. AC2	DATA No. AC3	DATA No. AC4	DATA No. AC5	DATA No. AC6	DATA No. AC7
27,000	27,000	21,500	43,000	64,000	75,400	86,100
03-00002	03-00003	03-00002	03-00002	03-00001	03-00000	03-00002
02-00002	02-00002	02-00002	02-00003	02-00003	02-00005	02-00004
01-00002	01-00003	01-00003	01-00002	01-00006	01-00007	01-00004
00-00001	00-00001	00-00001	00-00004	00-00005	00-00005	00-00004
79-00001	79-00002	79-00001	79-00001	79-00002	79-00001	79-00001
78-00001	78-00001	78-00002	78-00002	78-00005	78-00001	78-00001
77-00002	77-00001	77-00001	77-00002	77-00006	77-00010	77-00011
76-00002	76-00001	76-00010	76-00003	76-00002	76-00001	76-00000
75-00004	75-00007	75-00016	75-00031	75-00004	75-00058	75-00017
74-00001	74-00002	74-00008	74-00017	74-00027	74-00032	74-00036
73-00004	73-00004	73-00010	73-00013	73-00022	73-00026	73-00030
72-00000	72-00000	72-00000	72-00000	72-00000	72-00003	72-00001
71-00002	71-00002	71-00005	71-00013	71-00022	71-00027	71-00032
70-00003	70-00003	70-00005	70-00017	70-00026	70-00037	70-00043
69-00007	69-00007	69-00016	69-00033	69-00046	69-00056	69-00060
68-00002	68-00002	68-00000	68-00007	68-00016	68-00021	68-00024
67-00002	67-00002	67-00001	67-00002	67-00001	67-00002	67-00001
66-00005	66-00005	66-00005	66-00005	66-00010	66-00010	66-00009
65-00001	65-00001	65-00001	65-00001	65-00005	65-00007	65-00010
64-00001	64-00001	64-00002	64-00003	64-00005	64-00006	64-00006
63-00003	63-00004	63-00005	63-00006	63-00009	63-00009	63-00009
62-00000	62-00000	62-00002	62-00005	62-00004	62-00009	62-00014
61-00011	61-00010	61-00011	61-00013	61-00011	61-00014	61-00016
60-00001	60-00002	60-00002	60-00025	60-00042	60-00052	60-00056
59-00034	59-00035	59-00046	59-00059	59-00089	59-00091	59-00093
58-00004	58-00002	58-00002	58-00003	58-00003	58-00003	58-00003
57-00003	57-00003	57-00016	57-00032	57-00053	57-00059	57-00062
56-00009	56-00009	56-00047	56-00077	56-00017	56-00042	56-00067
55-00007	55-00007	55-00063	55-00106	55-00154	55-00178	55-00194
54-00004	54-00003	54-00172	54-00305	54-00336	54-00371	54-00377
53-00002	53-00002	53-00132	53-00262	53-00340	53-00353	53-00351
52-00006	52-00005	52-00078	52-00145	52-00214	52-00251	52-00250
51-00003	51-00002	51-00144	51-00188	51-00236	51-00261	51-00297
50-00006	50-00006	50-00242	50-00287	50-00336	50-00370	50-00402
49-00002	49-00005	49-00192	49-00369	49-00394	49-00454	49-00473
48-00002	48-00003	48-00007	48-00200	48-00309	48-00365	48-00422
47-00003	47-00005	47-00110	47-00216	47-00326	47-00355	47-00411
46-00003	46-00006	46-00164	46-00366	46-00553	46-00608	46-00738
45-00001	45-00001	45-00061	45-00124	45-00185	45-00204	45-00227
44-00002	44-00003	44-00115	44-00245	44-00388	44-00464	44-00542
43-00000	43-00002	43-00174	43-00347	43-00517	43-00603	43-00687
42-00003	42-00006	42-00306	42-00618	42-00920	42-01172	42-01219
41-00001	41-00002	41-00247	41-00497	41-00734	41-00950	41-01261
40-00002	40-00004	40-00071	40-00141	40-00216	40-00285	40-00345
39-00003	39-00002	39-00026	39-00051	39-00073	39-00094	39-00112
38-00002	38-00004	38-00165	38-00324	38-00479	38-00558	38-00632
37-00000	37-00003	37-00189	37-00377	37-00561	37-00633	37-00740
36-00003	36-00001	36-00123	36-00263	36-00414	36-00496	36-00574
35-00003	35-00003	35-00017	35-00043	35-00080	35-00104	35-00128
34-00000	34-00000	34-00076	34-00157	34-00238	34-00292	34-00325
33-00003	33-00003	33-00014	33-00035	33-00052	33-00062	33-00071
32-00006	32-00006	32-00176	32-00346	32-00517	32-00604	32-00688
31-00006	31-00009	31-00235	31-00468	31-00645	31-00710	31-00714
30-00000	30-00006	30-00310	30-00653	30-00987	30-01158	30-01325
29-00002	29-00001	29-00002	29-00002	29-00006	29-00010	29-00013
28-00001	28-00001	28-00129	28-00269	28-00416	28-00494	28-00572
27-00000	27-00003	27-00180	27-00360	27-00576	27-00677	27-00775
26-00000	26-00003	26-00183	26-00364	26-00546	26-00637	26-00724
25-00001	25-00005	25-00018	25-00033	25-00044	25-00047	25-00051
24-00001	24-00003	24-00071	24-00221	24-00345	24-00416	24-00491
23-00002	23-00002	23-00007	23-00019	23-00035	23-00046	23-00056
22-00002	22-00002	22-00137	22-00288	22-00456	22-00530	22-00636
21-00002	21-00005	21-00179	21-00357	21-00538	21-00630	21-00716
20-00002	20-00009	20-00314	20-00637	20-00972	20-01147	20-01317
19-00005	19-00008	19-00253	19-00506	19-00781	19-00942	19-01014
18-00003	18-00002	18-00062	18-00126	18-00196	18-00223	18-00255
17-00002	17-00001	17-00047	17-00099	17-00162	17-00196	17-00231
16-00001	16-00003	16-00155	16-00307	16-00459	16-00533	16-00603
15-00002	15-00005	15-00197	15-00394	15-00601	15-00704	15-00802
14-00001	14-00002	14-00144	14-00308	14-00493	14-00595	14-00696
13-00003	13-00003	13-00031	13-00072	13-00127	13-00166	13-00195
12-00001	12-00002	12-00105	12-00217	12-00345	12-00415	12-00455
11-00003	11-00003	11-00010	11-00025	11-00047	11-00061	11-00061
10-00004	10-00007	10-00086	10-00177	10-00275	10-00378	10-00476
09-00002	09-00006	09-00228	09-00451	09-00671	09-00776	09-00875
08-00004	08-00009	08-00317	08-00639	08-00977	08-01151	08-01311
07-00000	07-00003	07-00170	07-00334	07-00514	07-00604	07-00692
06-00000	06-00000	06-00132	06-00264	06-00438	06-00535	06-00627
05-00000	05-00001	05-00122	05-00235	05-00378	05-00437	05-00496
04-00000	04-00002	04-00145	04-00273	04-00452	04-00542	04-00631
03-00001	03-00003	03-00222	03-00447	03-00673	03-00790	03-00892
02-00000	02-00002	02-00169	02-00344	02-00525	02-00619	02-00715
01-00000	01-00001	01-00107	01-00216	01-00320	01-00431	01-00523
00-00002	00-00002	00-00029	00-00098	00-00168	00-00245	00-00325
01415160	01415160	01415160	01423160	01431320	01431320	01431320
07197900	07197900	07197900	07197900	07197900	07197900	07197900





## TER073

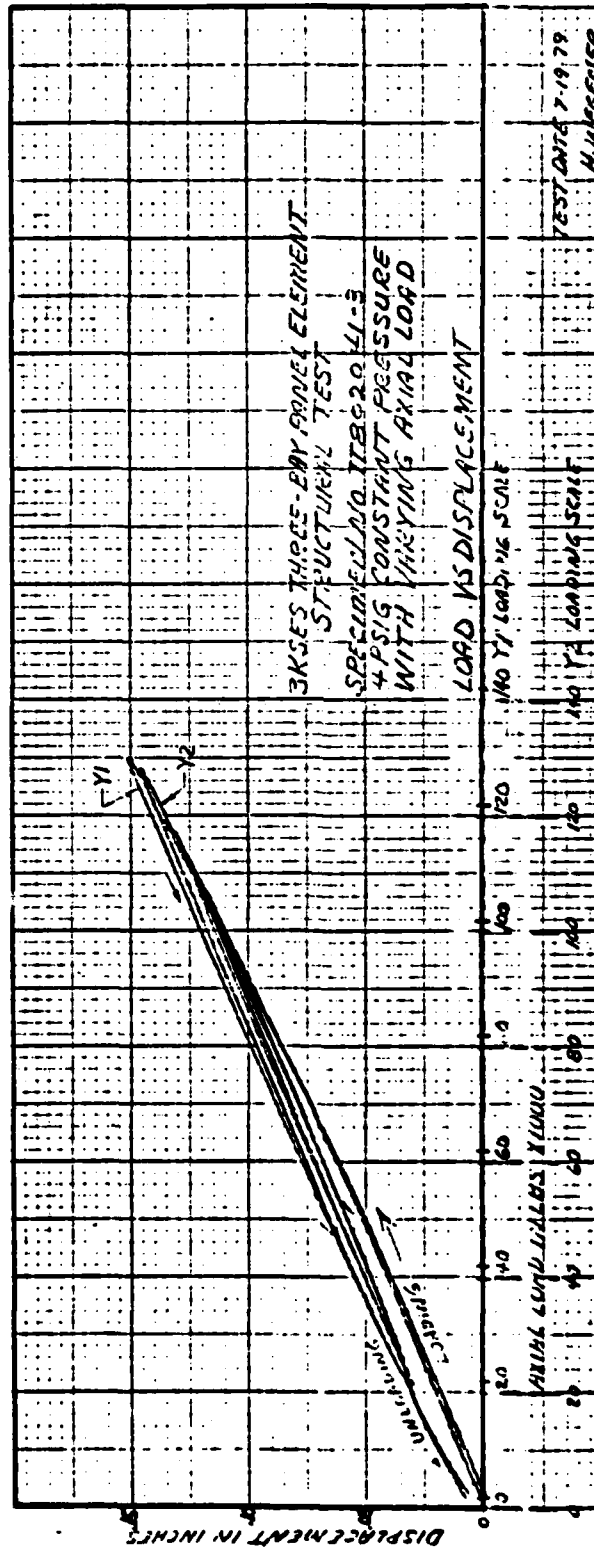
Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression

Page 3 of 3

PRE TEST R CAL	POST TEST R CAL
03-00020	03-00020
02-00007	02-00007
01-00097	01-00097
00-00074	00-00074
79-00046	79-00046
78-00017	78-00017
77-00036	77-00036
76-00094	76-00094
75-00020	75-00014
74-00067	74-00063
73-00060	73-00060
72-00046	72-00046
71-00027	71-00027
70-00022	70-00022
69-00068	69-00063
68-00028	68-00020
67-00037	67-00030
66-00000	66-00000
65-00012	65-00012
64-00084	64-00065
63-00172	63-00173
62-00056	62-00067
61-00012	61-00012
60-00002	60-00000
59-00079	59-00015
58-01425	58-01425
57-01428	57-01421
56-01421	56-01405
55-01423	55-01412
54-01435	54-01434
53-01429	53-01440
52-01424	52-01432
51-01434	51-01430
50-01424	50-01442
49-01430	49-01431
48-01423	48-01421
47-01422	47-01420
46-01423	46-01410
45-01424	45-01414
44-01423	44-01410
43-01426	43-01426
42-01424	42-01400
41-01429	41-01417
40-01429	40-01427
39-01424	39-01424
38-01423	38-01431
37-01420	37-01430
36-01425	36-01423
35-01422	35-01416
34-01426	34-01427
33-01426	33-01415
32-01420	32-01435
31-01421	31-01436
30-01425	30-01430
29-01429	29-01424
28-01426	28-01420
27-01425	27-01431
26-01424	26-01432
25-01422	25-01413
24-01440	24-01421
23-01424	23-01414
22-01426	22-01420
21-01424	21-01433
20-01423	20-01379
19-01425	19-01394
18-01424	18-01420
17-01423	17-01417
16-01425	16-01430
15-01423	15-01423
14-01424	14-01428
13-01421	13-01415
12-01427	12-01424
11-01422	11-01416
10-01421	10-01417
09-01423	09-01417
08-01421	08-01417
07-01424	07-01416
06-01422	06-01444
05-01424	05-01431
04-01422	04-01431
03-01424	03-01430
02-01425	02-01416
01-01426	01-01414
00-01427	00-01400
01-01427	01-01400
02-01427	02-01400
03-01427	03-01400

TT 802041-3 CIRCULATED		THREE-DAY ELEMENT COMBINED LOADING TEST										TEST DATE 7-19-79			
PISTON AREA = 10.768 IN <sup>2</sup>		AXIAL COMPRESSION & PRESSURE TEST ON TT 802041-3										(3/8" STIFFENER OFFSET)			
REF. TT 00017 12 3 5 3															
DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSIG	IN. HG	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	HYD. CYL. P <sub>IN</sub>	HYD. CYL. P <sub>OUT</sub>					
ACP 0	0	0	0	0	.100	.100	.100	.100	HYD. CYL. P <sub>IN</sub>	OUT					
ACP 1	0	0	0	0	.100	.100	.100	.100	"	"					
ACP 12	0	0	4	8.14	.111	.101	.139	.130							
ACP 2	2,000	21,540	4		.103	.102	.144	.131							
ACP 3	4,000	43,070	4		.105	.105	.150	.130							
ACP 4	5,000	53,540													
ACP 5	6,000	64,610	4		.109	.110	.158	.129							
ACP 6	7,000	75,530													
ACP 7	8,000	86,140	4		.114	.116	.171	.127							
ACP 8	9,000	96,910	4		.117	.120	.176	.126							
ACP 9	10,000	107,680	4		.119	.123	.184	.127							
ACP 10	2,000	21,540	4		.111	.123	.146	.129							
ACP 11	11,000	118,450	4		.123	.126	.193	.128							
ACP 12	12,000	129,220	4		.126	.130	.202	.129							
ACP 13	3,000	21,540	4		.113	.115	—	.129							
ACP 14	0	0	4	8.14	.107	.106	.140	.133							
ACP 15	0	0	0	0	.005	.004	.003	.002	HYD. CYL. P <sub>IN</sub>	IN					
ACP 16	0	0	0	0	.004	.004	.003	.002	HYD. CYL. P <sub>IN</sub>	OUT					

TER073



B-755



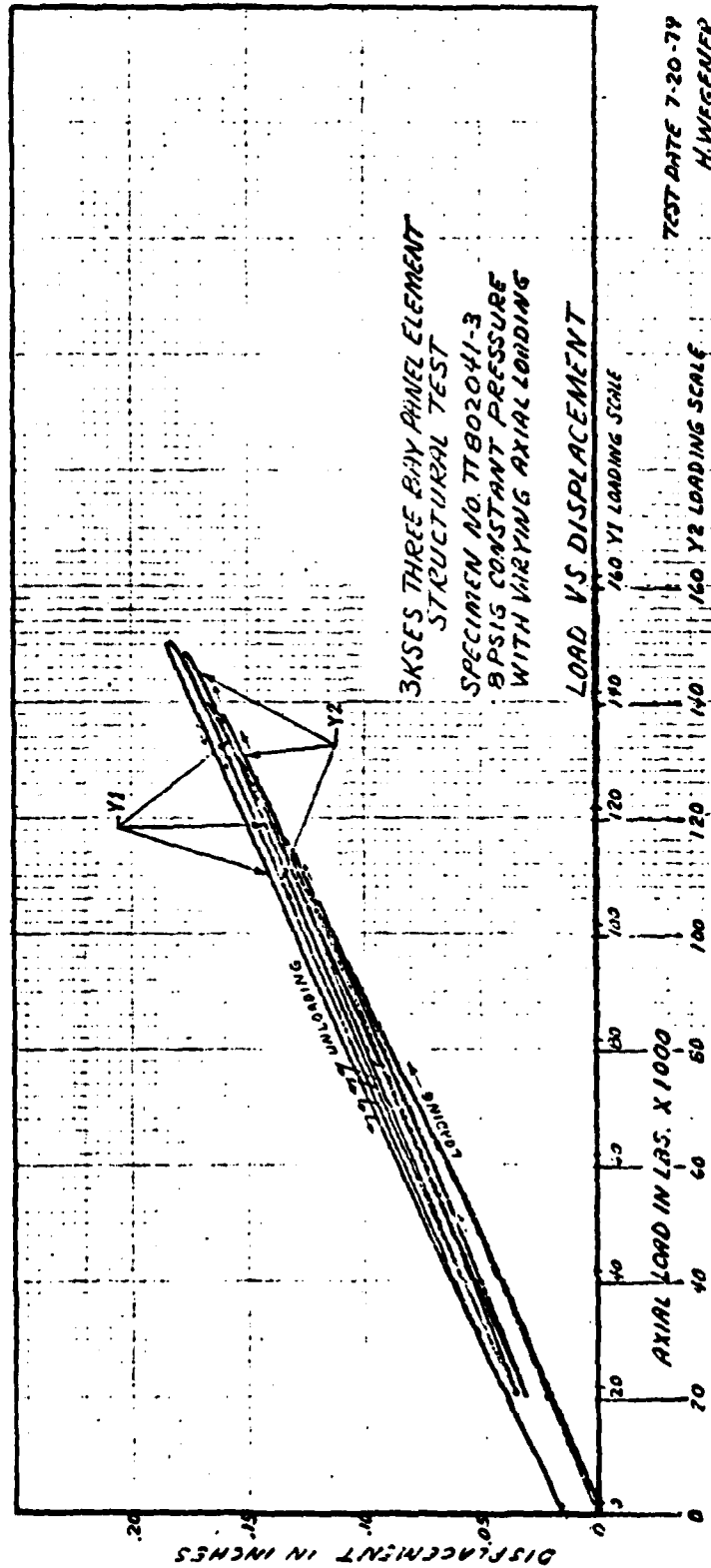


Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression with 4 psig Normal Pressure Page 3 of 3

**B-758**

TT63041-3 CALCULATED		THREE-BAY ELEMENT COMBINED LOADING TEST										TEST DATE 7-20-79	
PANEL AREA=10.760 m <sup>2</sup>		ANALOG DEPRESSION & PRESSURE TEST ON TT602041-3										(30 SECT OFFSET)	
REF ID: 00017 223 5.2.3													
DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESSURE PSI/G	Wt. Hg	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD. CYL. IN	HYD. CYL. OUT		
ACP0	—	0	0	0	.100	.100	.100	.100	.500	HYD. CYL. IN	OUT		
ACP1	—	0	0	0	.100	.100	.100	.100	.500	HYD. CYL. IN	OUT		
ACP1a	—	0	2	4.07	.101	.130	.130	.122	.503				
ACP2	—	0	6	12.22	.102	.102	.138	.130	.500				
ACP3	—	0	2	4.07	.102	.101	.133	.127	.504				
ACP4	—	0	7	14.25	.103	.103	.139	.129	.499				
ACP5	—	0	2	4.07	.102	.102	.133	.127	.504				
ACP6	—	0	8	16.29	.103	.103	.140	.128	.497				
ACP7	—	0	2	4.07	.102	.102	.133	.127	.506				
ACP8	—	0	8	16.29	.104	.103	.140	.128	.477				
ACP9	2,000	21,540	8	1	.105	.105	.144	.127	.482				
ACP10	4,000	43,070	8	1	.108	.108	.150	.125	.462				
ACP11	6,000	64,610	8	1	.112	.113	.153	.123	.440				
ACP12	7,000	75,380	8	1	.114	.117	.164	.123	.429				
ACP13	8,000	86,140	8	1	.117	.120	.170	.123	.418				
ACP14	9,000	96,910	8	1	.120	.123	.177	.122	.406				
ACP15	2,000	21,500	8	1	.113	.115	.149	.129	.472				
ACP16	10,000	107,620	8	1	.123	.125	.184	.123	.396				
ACP17	11,000	118,450	8	1	.125	.129	.193	.123	.383				
ACP18	12,000	129,220	8	1	.128	.132	.202	.124	.372				
ACP19	2,000	21,500	8	1	.116	.118	.150	.129	.468				
ACP20	13,000	140,000	8	16.29	.130	.135	.214	.153	.363				
ACP21	14,000	150,750	8	16.29	.132	.137	.226	.131	.349				
ACP22	2,000	21,540	8	16.29	.119	.121	.152	.129	.465				
ACP23	—	0	8	16.29	.116	.116	.144	.130	.455				
ACP24	—	0	0	0	.112	.112	.100	.100	.485	HYD. CYL. IN	OUT		
ACP25	—	0	0	0	.112	.112	.101	.100	.485	HYD. CYL. IN	OUT		

TER073



B-760



Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression with 8 psig Normal Pressure Page 1 of 5

**B-761**

## TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression with 8 psig Normal Pressure Page 2 of 5

[illegible]

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression with 8 psig Normal Pressure Page 3 of 5

**B-763**

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
Elastic Axial Compression with 8 psig Normal Pressure Page 4 of 5

**B-764**

## TERO73

Test Data - 3-Bay Element No. TT802041-3 (All stiffeners bowed 3/8")  
 Elastic Axial Compression with 8 psig Normal Pressure Page 5 of 5

PRETEST RCAL	POST TEST RCAL
43*00020	43*00020
42*00027	42*00026
41*00027	41*00021
40*00074	40*00074
39*00034	39*00034
38*00018	38*00017
37*00030	37*00034
36*00066	36*00034
35*00023	35*00022
34*00057	34*00055
33*00069	33*00066
32*00040	32*00042
31*00026	31*00025
30*000305	30*000303
29*00069	29*00067
28*00022	28*00024
27*00018	27*00020
26*00053	26*00054
25*00010	25*00008
24*00082	24*00083
23*00017	23*00017
22*00054	22*00055
21*00018	21*00016
20*00001	20*00001
19*00011	19*00017
18*00028	18*00026
17*00029	17*00011
16*00026	16*00038
15*00027	15*00010
14*00033	14*00034
13*00024	13*00037
12*00029	12*00037
11*00036	11*00063
10*00026	10*00027
09*00031	09*00027
08*00022	08*00016
07*00025	07*00033
06*00023	06*00034
05*00026	05*00034
04*00023	04*00036
03*00026	03*00016
02*00023	02*00036
01*00029	01*00049
00*00027	00*00030
39*00027	39*00025
38*00024	38*00021
37*00029	37*00031
36*00027	36*00030
35*00024	35*00014
34*00027	34*00040
33*00024	33*00015
32*00030	32*00019
31*00030	31*00014
30*00027	30*00009
29*00028	29*00044
28*00023	28*00049
27*00023	27*00031
26*00023	26*00015
25*00021	25*00032
24*00026	24*00046
23*00022	23*00033
22*00022	22*00013
21*00024	21*00010
20*00022	20*00035
19*00028	19*00013
18*00023	18*00034
17*00023	17*00014
16*00026	16*00014
15*00024	15*00024
14*00022	14*00028
13*00022	13*00003
12*00027	12*00036
11*00022	11*00017
10*00023	10*00046
09*00023	09*00039
08*00021	08*00046
07*00021	07*00028
06*00021	06*00032
05*00022	05*00034
04*00023	04*00014
03*00022	03*00036
02*00027	02*00024
01*00026	01*00033
00*00023	00*00036
01358*80	01358*80
00730790	00730790

NORMAL PRESSURE TEST ON TT 802041-3 MOD TEST DATE 7-26-79  
REF: TP000017 P. 3.5.2.1 (3/16" STIFFENER OFFSET)

DATA NO.	PRESSURE		DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.
	PSIG	IN. Hg	D1	D2	D3	D4	D5	D6	D7
P1	0	0	—	—	.100	.100	.500		
P2	2	4.07	—	—	.130	.124	.503		
P3	4	8.14	—	—	.134	.129	.502		
P4	6	12.22	—	—	.137	.131	.501		
P5	8	16.29	—	—	.138	.128	.498		
P6	2	4.07	—	—	.132	.129	.504		
P7	9	18.32	—	—	.139	.127	.497		
P8	2	4.07	—	—	.132	.128	.504		
P9	10	20.36	—	—	.141	.125	.496		
P10	11	22.40	—	—	.142	.124	.494		
P11	12	24.45	—	—	.143	.124	.493		
P12	2	4.07	—	—	.132	.129	.504		
P13*	2	4.07	—	—	.131	.127	.503		
P14	14	28.50	—	—	.145	.124	.490		
P15	16	32.58	—	—	.148	.124	.488		
P16	18	36.65	—	—	.150	.124	.486		
P17	2	4.07	—	—	.133	.129	.504		
P18	19	38.68	—	—	.151	.123	.487		
P19	20	40.72	—	—	.154	.125	.486		
P20	2	4.07	—	—	.133	.130	.505		
P21	0	0	—	—	.101	.103	.501		

\* REDUCED PRESSURE TO 1 PSIG THEN EACH TO 2 PSIG

## TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure Page 1 of 4

[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure Page 2 of 4

Page 2 of 4

[illegible]



## TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure

Page 3 of 4

DATA NO. P15	DATA NO. P16	DATA NO. P17	DATA NO. P18	DATA NO. P19	DATA NO. P20	DATA NO. P21
16 PSIG	18 PSIG	2 PSIG	19 PSIG	20 PSIG	2 PSIG	20 PSIG
03-00128	03-00140	03-00139	03-00149	03-00154	03-00140	03-00140
02-00056	02-00058	02-00055	02-00061	02-00063	02-00060	02-00060
01-00072	01-00079	01-00072	01-00082	01-00086	01-00086	01-00086
00-00048	00-00044	00-00027	00-00054	00-00055	00-00026	00-00002
79-00005	79-00010	79-00002	79-00010	79-00012	79-00003	79-00001
78-00121	78-0105	78-00000	78-00174	78-00183	78-00008	78-00003
77-00002	77-00002	77-00001	77-00006	77-00006	77-00003	77-00004
76-00044	76-00053	76-00008	76-00057	76-00068	76-00007	76-00002
75-00167	75-01084	75-00059	75-00193	75-00205	75-00054	75-00005
74-00006	74-00006	74-00005	74-00005	74-00006	74-00005	74-00005
73-00119	73-00132	73-00008	73-00137	73-00144	73-00002	73-00006
72-00169	72-0105	72-00055	72-00196	72-00206	72-00005	72-00001
71-00120	71-0129	71-00004	71-00139	71-00143	71-00007	71-00007
60-00003	60-00004	60-00001	60-00003	60-00004	60-00000	60-00000
09-00167	09-0105	09-00050	09-00194	09-00203	09-00050	09-00006
08-00039	08-00043	08-00006	08-00007	08-00007	08-00007	08-00001
07-00007	07-00010	07-00007	07-00017	07-00017	07-00007	07-00007
06-00144	06-0101	06-00043	06-00171	06-00174	06-00044	06-00007
05-00010	05-00010	05-00004	05-00008	05-00008	05-00004	05-00004
04-00042	04-00044	04-00025	04-00048	04-00048	04-00027	04-00000
03-00043	03-00042	03-00025	03-00046	03-00048	03-00026	03-00007
02-00062	02-00069	02-00024	02-00072	02-00073	02-00023	02-00001
01-00115	01-0125	01-00034	01-00137	01-00143	01-00034	01-00004
00-00003	00-00013	00-00010	00-00005	00-00005	00-00007	00-00000
59-00078	59-00079	59-00073	59-00077	59-00082	59-00076	59-00070
58-00000	58-00001	58-00001	58-00001	58-00001	58-00002	58-00002
57-00039	57-00045	57-00015	57-00050	57-00057	57-00015	57-00004
56-00161	56-00162	56-00037	56-00194	56-00207	56-00023	56-00074
55-00045	55-00082	55-00034	55-00079	55-00085	55-00013	55-00019
54-00066	54-00069	54-00036	54-00072	54-00079	54-00036	54-00004
53-00165	53-00164	53-00009	53-00196	53-00202	53-00059	53-00011
52-00122	52-00138	52-00056	52-00143	52-00148	52-00050	52-00015
51-00138	51-00138	51-00014	51-00139	51-00141	51-00015	51-00004
50-00057	50-00044	50-00015	50-00018	50-00012	50-00016	50-00005
49-00027	49-00026	49-00025	49-00025	49-00027	49-00025	49-00001
48-00113	48-00122	48-00013	48-00127	48-00139	48-00013	48-00002
47-00152	47-00173	47-00004	47-00168	47-00169	47-00021	47-00002
46-00083	46-00044	46-00002	46-00047	46-00048	46-00005	46-00000
45-00025	45-00051	45-00040	45-00021	45-00044	45-00044	45-00053
44-00172	44-00168	44-00042	44-00170	44-00176	44-00151	44-00156
43-00177	43-00199	43-00052	43-00212	43-00226	43-00054	43-00004
42-00084	42-00011	42-00027	42-00054	42-00058	42-00024	42-00004
41-00029	41-00099	41-00076	41-00035	41-00070	41-00014	41-00010
40-00003	40-00024	40-00016	40-00016	40-00115	40-00155	40-00045
39-00076	39-00080	39-00076	39-00031	39-00085	39-00076	39-00006
38-00027	38-00021	38-00021	38-00021	38-00021	38-00021	38-00021
37-00116	37-00125	37-00033	37-00130	37-00134	37-00034	37-00002
36-00145	36-00120	36-00013	36-00127	36-00136	36-00136	36-00005
35-00091	35-00122	35-00016	35-00104	35-00125	35-00136	35-00000
34-00137	34-00148	34-00080	34-00158	34-00165	34-00195	34-00032
33-00132	33-00149	33-00046	33-00153	33-00169	33-00155	33-00007
32-00035	32-00032	32-00068	32-00073	32-00093	32-00071	32-00000
31-00020	31-00020	31-00021	31-00028	31-00137	31-00222	31-00002
30-00126	30-00140	30-00036	30-00148	30-00154	30-00036	30-00011
29-00130	29-00147	29-00017	29-00165	29-00165	29-00017	29-00007
28-00142	28-00151	28-00019	28-00171	28-00183	28-00201	28-00007
27-00115	27-00126	27-00045	27-00131	27-00137	27-00046	27-00007
26-00111	26-00121	26-00032	26-00128	26-00132	26-00033	26-00005
25-00070	25-00096	25-00010	25-00160	25-00126	25-00122	25-00007
24-00032	24-00094	24-00015	24-00096	24-00104	24-00108	24-00002
23-00120	23-00145	23-00018	23-00177	23-00166	23-00142	23-00006
22-00109	22-00178	22-00022	22-00179	22-00187	22-00203	22-00006
21-00033	21-00037	21-00078	21-00039	21-00041	21-00019	21-00004
20-00113	20-00131	20-00042	20-00135	20-00148	20-00206	20-00005
19-00107	19-00123	19-00026	19-00129	19-00136	19-00171	19-00008
18-00129	18-00145	18-00017	18-00150	18-00161	18-00172	18-00011
17-00143	17-00160	17-00014	17-00161	17-00174	17-00164	17-00003
16-00226	16-00232	16-00061	16-00264	16-00278	16-00062	16-00003
15-00136	15-00146	15-00042	15-00149	15-00152	15-00052	15-00002
14-00106	14-00121	14-00013	14-00128	14-00134	14-00130	14-00003
13-00098	13-00132	13-00013	13-00115	13-00123	13-00134	13-00001
12-00069	12-00082	12-00016	12-00103	12-00113	12-00131	12-00026
11-00074	11-00084	11-00072	11-00095	11-00098	11-00099	11-00004
10-00216	10-00240	10-00060	10-00254	10-00256	10-00060	10-00005
09-00014	09-00101	09-00053	09-00104	09-00121	09-00262	09-00006
08-00007	08-00040	08-00021	08-00045	08-00095	08-00216	08-00007
07-00062	07-00065	07-00072	07-00069	07-00076	07-00074	07-00001
06-00198	06-00173	06-00066	06-00183	06-00197	06-00114	06-00006
05-00131	05-00143	05-00083	05-00155	05-00161	05-00132	05-00010
04-00137	04-00128	04-00144	04-00139	04-00136	04-00136	04-00000
03-00090	03-00050	03-00070	03-00079	03-00069	03-00071	03-00005
02-00057	02-00028	02-00072	02-00062	02-00068	02-00074	02-00002
01-00120	01-00132	01-00019	01-00147	01-00169	01-00126	01-00024
00-00173	00-00163	00-00027	00-00161	00-00161	00-00179	00-00000
01-00126	01-00130	01-00030	01-00130	01-00130	01-00030	01-00170
00-00170	00-00170	00-00170	00-00170	00-00170	00-00170	00-00170

## TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure

Page 4 of 4

PRE TEST	POST TEST
K CAL	K CAL
83-00060	83-00060
82-00074	82-00074
81-00086	81-00086
80-00095	80-00095
79-00109	79-00109
78-00040	78-00040
77-00034	77-00034
76-00317	76-00317
75-00028	75-00028
74-00339	74-00339
73-00047	73-00047
72-00045	72-00045
71-00035	71-00035
70-00033	70-00033
69-00081	69-00081
68-00197	68-00197
67-00256	67-00256
66-00069	66-00069
65-00043	65-00043
64-00087	64-00087
63-00221	63-00221
62-00102	62-00102
61-00002	61-00002
60-00002	60-00002
59-00977	59-00977
58-01431	58-01431
57-01433	57-01433
56-01431	56-01431
55-01430	55-01430
54-01434	54-01434
53-01433	53-01433
52-01434	52-01434
51-01431	51-01431
50-01431	50-01431
49-01434	49-01434
48-01426	48-01426
47-01426	47-01426
46-01427	46-01427
45-01429	45-01429
44-01427	44-01427
43-01428	43-01428
42-01424	42-01424
41-01424	41-01424
40-01430	40-01430
39-01436	39-01436
38-01428	38-01428
37-01433	37-01433
36-01432	36-01432
35-01426	35-01426
34-01433	34-01433
33-01433	33-01433
32-01436	32-01436
31-01437	31-01437
30-01430	30-01430
29-01431	29-01431
28-01424	28-01424
27-01427	27-01427
26-01426	26-01426
25-01424	25-01424
24-01426	24-01426
23-01428	23-01428
22-01431	22-01431
21-01432	21-01432
20-01425	20-01425
19-01431	19-01431
18-01427	18-01427
17-01427	17-01427
16-01428	16-01428
15-01428	15-01428
14-01428	14-01428
13-01426	13-01426
12-01428	12-01428
11-01426	11-01426
10-01428	10-01428
09-01426	09-01426
08-01426	08-01426
07-01426	07-01426
06-01426	06-01426
05-01426	05-01426
04-01425	04-01425
03-01424	03-01424
02-01427	02-01427
01-01429	01-01429
00-01426	00-01426
0143130	0143130
00726790	00726790

**CALCULATED**

PANEL AREA = 10.768 IN.<sup>2</sup>

AXIAL COMPRESSION TEST ON TT802041-3 MOD.

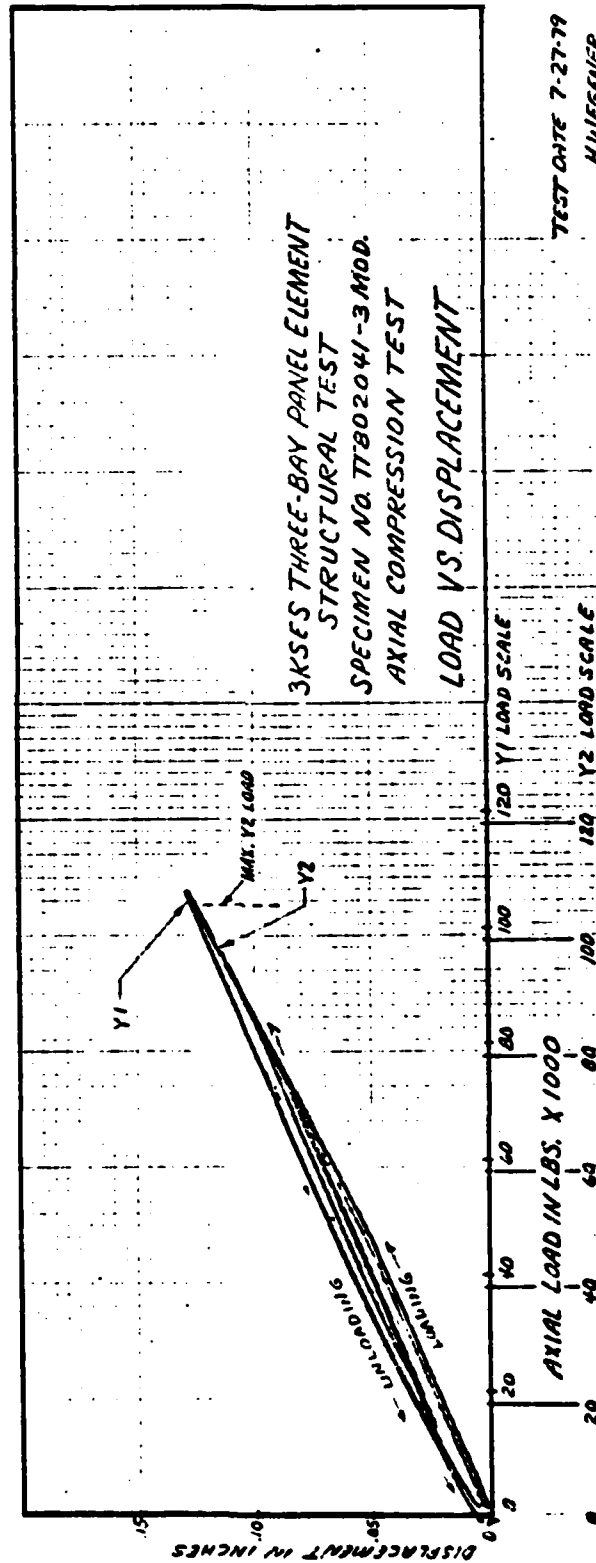
TEST DATE 7-27-79

REF. TTP00017 TP 3.5.2.2

3/16" STIFFENER OFFSET

[illegible]

TER073



B-772

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression Page 1 of 2

Page 1 of 2

[illegible]

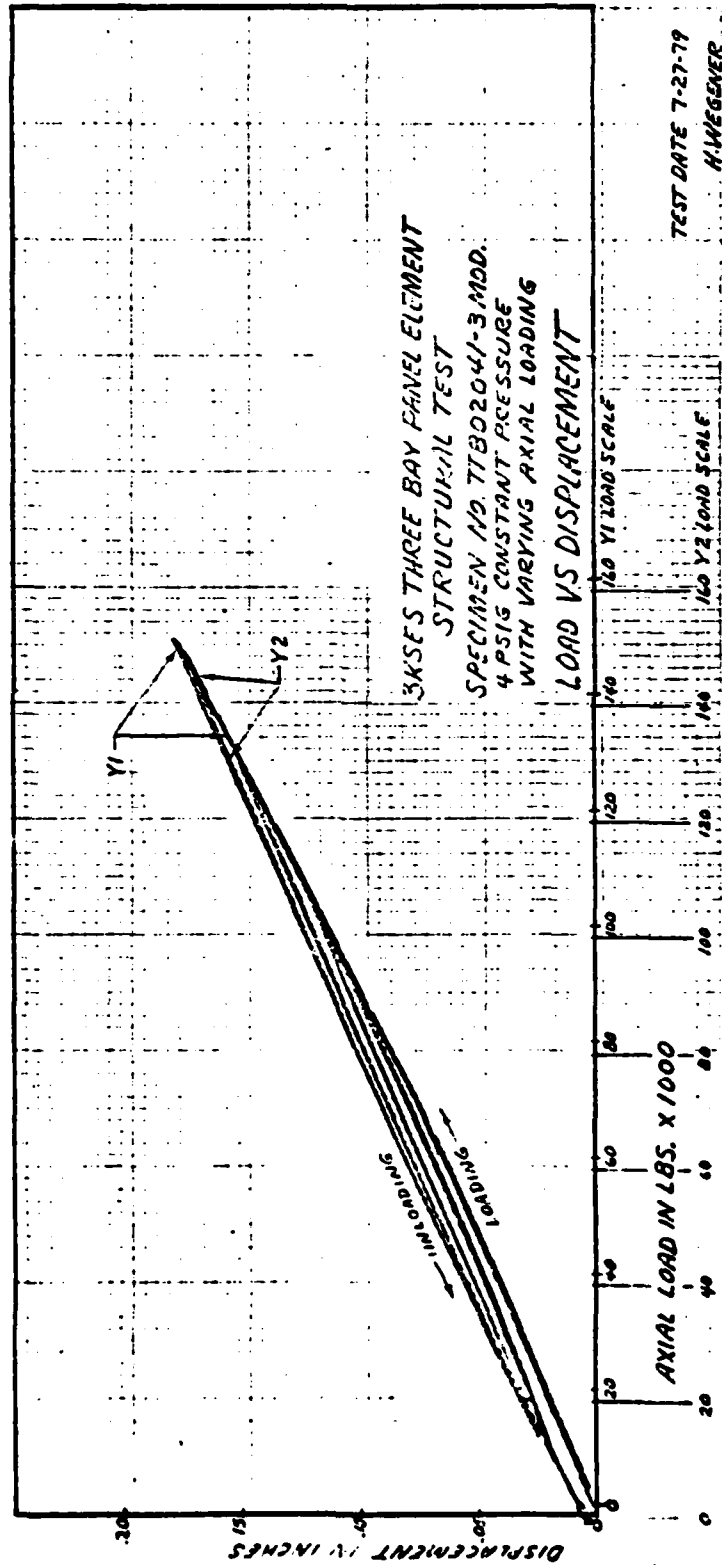
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression Page 2 of 2

[illegible]

CALCULATED  
 THREE-BAY ELEMENT COMBINED LOADING TEST  
 AXIAL AREA = 10.768 IN.<sup>2</sup> AXIAL COMPRESSION & PRESSURE TEST ON T7802041-3 MOD. TEST DATE 7-27-79  
 REF. YTP00017 P. 3.5, 2, 3 (3/4" STIFFENER OFFSET)

DATA No.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESS. PSI	IN. Hg.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD. CYL. PIN IN.	HYD. CYL. PIN OUT
ACP0	0	0	0	0	.100	.100	.100	.100	.500		
ACP1	0	0	0	0	.100	.100	.100	.101	.500		
ACP1a	0	0	4	8.14	.101	.101	.138	.132	.503		
ACP2	2,000	21,536	4	1	.103	.103	.140	.131	.486		
ACP3	4,000	43,072	4		.105	.106	.142	.129	.468		
ACP4	6,000	64,608	4		.108	.110	.146	.125	.448		
ACP5	8,000	86,144	4		.113	.116	.152	.122	.425		
ACP6	10,000	107,680	4		.119	.123	.161	.118	.403		
ACP7	2,000	21,536	4		.109	.110	.142	.130	.481		
ACP8	11,000	118,448	4		.122	.126	.168	.118	.392		
ACP9	12,000	129,216	4		.125	.129	.179	.110	.381		
ACP10	2,000	21,536	4		.109	.110	.143	.131	.481		
ACP11	12,000	139,984	4		.127	.132	.182	.119	.370		
ACP12	14,000	150,752	4		.130	.135	.190	.122	.360		
ACP13	2,000	21,536	4	1	.111	.113	.143	.130	.478		
ACP14	0	0	4	8.14	.106	.106	.140	.134	.501		
ACP15	0	0	0	0	.103	.103	.103	.102	.497	HYD. CYL. PIN IN.	
ACP16	0	0	0	0	.103	.103	.103	.102	.497	HYD. CYL. PIN OUT	

TER073



B-776



TERO73  
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 3

TERO73  
Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 4 psig Normal Pressure Page 1 of 3

Page 1 of 3

[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 4 psig Normal Pressure Page 2 of 3

[illegible]

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 4 psig Normal Pressure Page 3 of 3

**B-779**

THREE-HAY ELEMENT COMBINED LOADING TEST

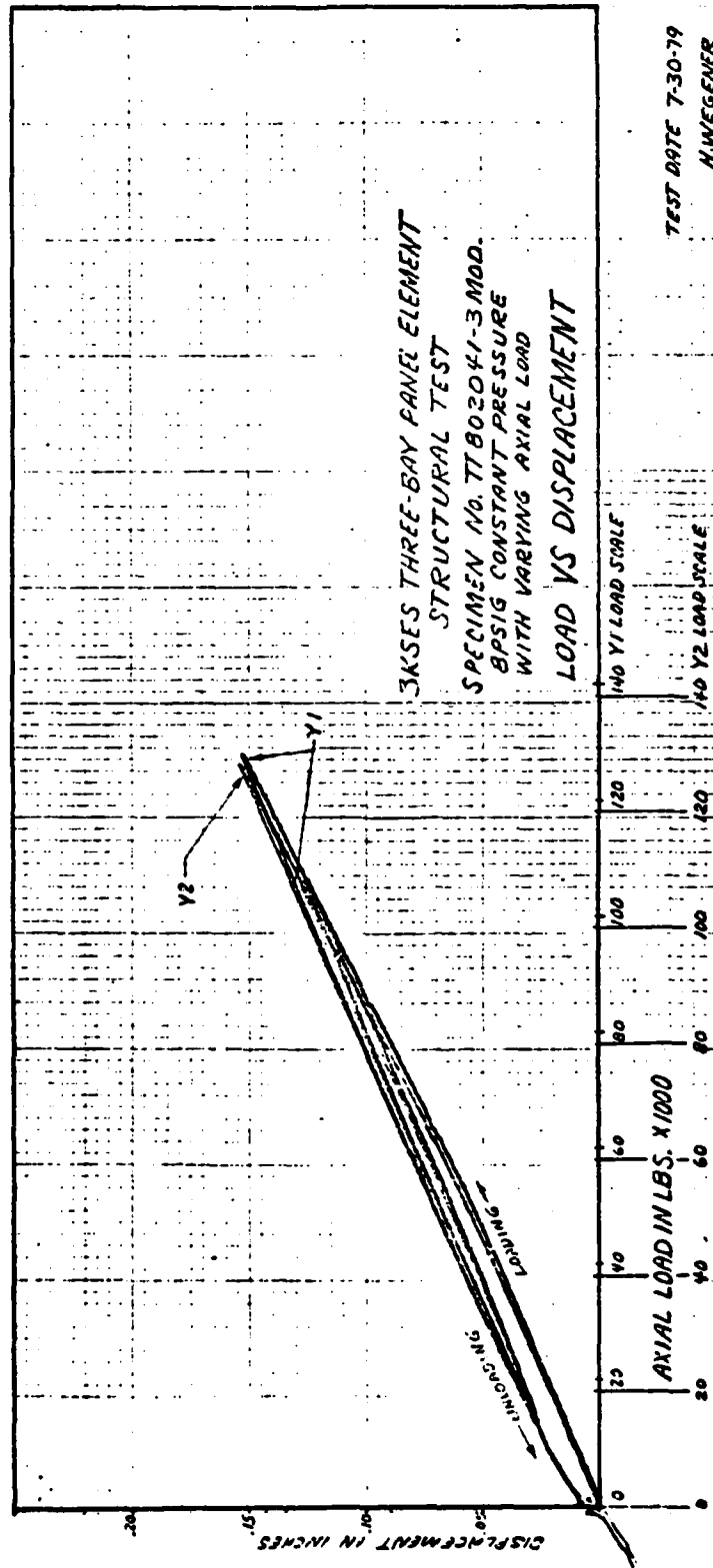
CALCULATED

PANEL AREA = 10.768 IN.<sup>2</sup> AXIAL COMPRESSION & PRESSURE TEST ON TT80204-3 MOD. TEST DATE 7-30-79

REF. TP00017 TP 3.5.2.3 (3/16" STIFFENER OFFSET)

DROPPED LOAN TO 15,000 \* THEN BACK UP TO 24,530 #

TER073



B-781

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 8 psig Normal Pressure Page 1 of 3

Page 1 of 3

**B-782**

## TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 8 psi<sub>z</sub> Normal Pressure

Page 2 of 3

DATA No. ACP6	DATA No. ACP7	DATA No. ACP8	DATA No. ACP9	DATA No. ACP10	DATA No. ACP11	DATA No. ACP12
107.7000 8PSIG	21.5000 8PSIG	12.9000 8PSIG	25.0000 8PSIG	25.0000 8PSIG	25.0000 8PSIG	25.0000 8PSIG
83-00008	83-00007	83-00008	83-00009	83-00008	83-00009	83-00008
82-00008	82-00007	82-00007	82-00008	82-00008	82-00009	82-00008
81-00008	81-00007	81-00007	81-00008	81-00008	81-00009	81-00008
80-00008	80-00007	80-00007	80-00008	80-00008	80-00009	80-00008
79-00008	79-00007	79-00007	79-00008	79-00008	79-00009	79-00008
78-00008	78-00007	78-00007	78-00008	78-00008	78-00009	78-00008
77-00008	77-00007	77-00007	77-00008	77-00008	77-00009	77-00008
76-00008	76-00007	76-00007	76-00008	76-00008	76-00009	76-00008
75-00008	75-00007	75-00007	75-00008	75-00008	75-00009	75-00008
74-00008	74-00007	74-00007	74-00008	74-00008	74-00009	74-00008
73-00008	73-00007	73-00007	73-00008	73-00008	73-00009	73-00008
72-00008	72-00007	72-00007	72-00008	72-00008	72-00009	72-00008
71-00008	71-00007	71-00007	71-00008	71-00008	71-00009	71-00008
70-00008	70-00007	70-00007	70-00008	70-00008	70-00009	70-00008
69-00008	69-00007	69-00007	69-00008	69-00008	69-00009	69-00008
68-00008	68-00007	68-00007	68-00008	68-00008	68-00009	68-00008
67-00008	67-00007	67-00007	67-00008	67-00008	67-00009	67-00008
66-00008	66-00007	66-00007	66-00008	66-00008	66-00009	66-00008
65-00008	65-00007	65-00007	65-00008	65-00008	65-00009	65-00008
64-00008	64-00007	64-00007	64-00008	64-00008	64-00009	64-00008
63-00008	63-00007	63-00007	63-00008	63-00008	63-00009	63-00008
62-00008	62-00007	62-00007	62-00008	62-00008	62-00009	62-00008
61-00008	61-00007	61-00007	61-00008	61-00008	61-00009	61-00008
60-00008	60-00007	60-00007	60-00008	60-00008	60-00009	60-00008
59-00008	59-00007	59-00007	59-00008	59-00008	59-00009	59-00008
58-00008	58-00007	58-00007	58-00008	58-00008	58-00009	58-00008
57-00008	57-00007	57-00007	57-00008	57-00008	57-00009	57-00008
56-00008	56-00007	56-00007	56-00008	56-00008	56-00009	56-00008
55-00008	55-00007	55-00007	55-00008	55-00008	55-00009	55-00008
54-00008	54-00007	54-00007	54-00008	54-00008	54-00009	54-00008
53-00008	53-00007	53-00007	53-00008	53-00008	53-00009	53-00008
52-00008	52-00007	52-00007	52-00008	52-00008	52-00009	52-00008
51-00008	51-00007	51-00007	51-00008	51-00008	51-00009	51-00008
50-00008	50-00007	50-00007	50-00008	50-00008	50-00009	50-00008
49-00008	49-00007	49-00007	49-00008	49-00008	49-00009	49-00008
48-00008	48-00007	48-00007	48-00008	48-00008	48-00009	48-00008
47-00008	47-00007	47-00007	47-00008	47-00008	47-00009	47-00008
46-00008	46-00007	46-00007	46-00008	46-00008	46-00009	46-00008
45-00008	45-00007	45-00007	45-00008	45-00008	45-00009	45-00008
44-00008	44-00007	44-00007	44-00008	44-00008	44-00009	44-00008
43-00008	43-00007	43-00007	43-00008	43-00008	43-00009	43-00008
42-00008	42-00007	42-00007	42-00008	42-00008	42-00009	42-00008
41-00008	41-00007	41-00007	41-00008	41-00008	41-00009	41-00008
40-00008	40-00007	40-00007	40-00008	40-00008	40-00009	40-00008
39-00008	39-00007	39-00007	39-00008	39-00008	39-00009	39-00008
38-00008	38-00007	38-00007	38-00008	38-00008	38-00009	38-00008
37-00008	37-00007	37-00007	37-00008	37-00008	37-00009	37-00008
36-00008	36-00007	36-00007	36-00008	36-00008	36-00009	36-00008
35-00008	35-00007	35-00007	35-00008	35-00008	35-00009	35-00008
34-00008	34-00007	34-00007	34-00008	34-00008	34-00009	34-00008
33-00008	33-00007	33-00007	33-00008	33-00008	33-00009	33-00008
32-00008	32-00007	32-00007	32-00008	32-00008	32-00009	32-00008
31-00008	31-00007	31-00007	31-00008	31-00008	31-00009	31-00008
30-00008	30-00007	30-00007	30-00008	30-00008	30-00009	30-00008
29-00008	29-00007	29-00007	29-00008	29-00008	29-00009	29-00008
28-00008	28-00007	28-00007	28-00008	28-00008	28-00009	28-00008
27-00008	27-00007	27-00007	27-00008	27-00008	27-00009	27-00008
26-00008	26-00007	26-00007	26-00008	26-00008	26-00009	26-00008
25-00008	25-00007	25-00007	25-00008	25-00008	25-00009	25-00008
24-00008	24-00007	24-00007	24-00008	24-00008	24-00009	24-00008
23-00008	23-00007	23-00007	23-00008	23-00008	23-00009	23-00008
22-00008	22-00007	22-00007	22-00008	22-00008	22-00009	22-00008
21-00008	21-00007	21-00007	21-00008	21-00008	21-00009	21-00008
20-00008	20-00007	20-00007	20-00008	20-00008	20-00009	20-00008
19-00008	19-00007	19-00007	19-00008	19-00008	19-00009	19-00008
18-00008	18-00007	18-00007	18-00008	18-00008	18-00009	18-00008
17-00008	17-00007	17-00007	17-00008	17-00008	17-00009	17-00008
16-00008	16-00007	16-00007	16-00008	16-00008	16-00009	16-00008
15-00008	15-00007	15-00007	15-00008	15-00008	15-00009	15-00008
14-00008	14-00007	14-00007	14-00008	14-00008	14-00009	14-00008
13-00008	13-00007	13-00007	13-00008	13-00008	13-00009	13-00008
12-00008	12-00007	12-00007	12-00008	12-00008	12-00009	12-00008
11-00008	11-00007	11-00007	11-00008	11-00008	11-00009	11-00008
10-00008	10-00007	10-00007	10-00008	10-00008	10-00009	10-00008
9-00008	9-00007	9-00007	9-00008	9-00008	9-00009	9-00008
8-00008	8-00007	8-00007	8-00008	8-00008	8-00009	8-00008
7-00008	7-00007	7-00007	7-00008	7-00008	7-00009	7-00008
6-00008	6-00007	6-00007	6-00008	6-00008	6-00009	6-00008
5-00008	5-00007	5-00007	5-00008	5-00008	5-00009	5-00008
4-00008	4-00007	4-00007	4-00008	4-00008	4-00009	4-00008
3-00008	3-00007	3-00007	3-00008	3-00008	3-00009	3-00008
2-00008	2-00007	2-00007	2-00008	2-00008	2-00009	2-00008
1-00008	1-00007	1-00007	1-00008	1-00008	1-00009	1-00008
0-00008	0-00007	0-00007	0-00008	0-00008	0-00009	0-00008

## TER073

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Elastic Axial Compression with 8 psig Normal Pressure

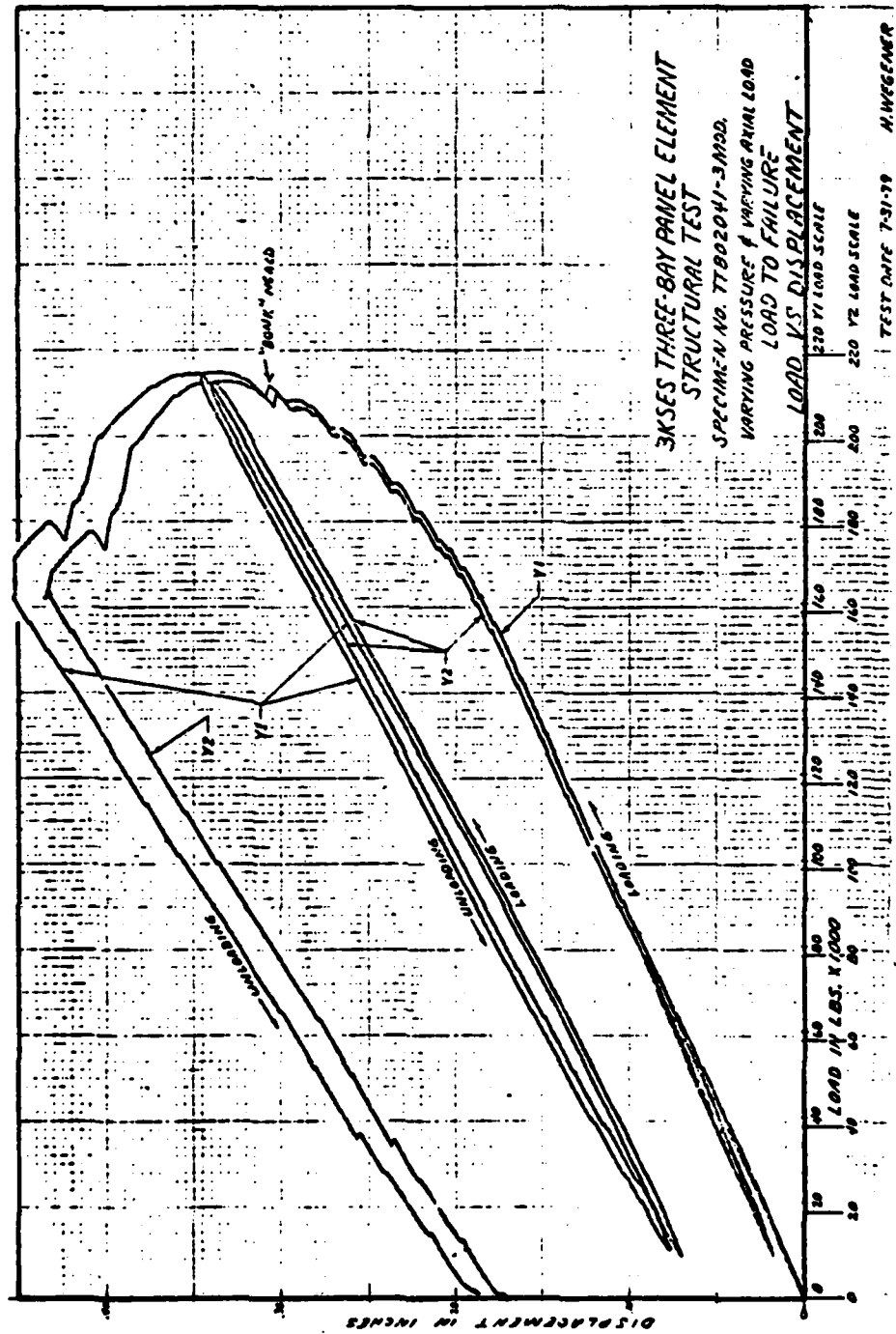
Page 3 of 3

PRE-TEST R CAL	POST-TEST R CAL
83-00064	83-00067
82-00067	82-00068
81-00081	81-00074
80-00100	80-00101
79-00109	79-00112
78-00034	78-00033
77-00061	77-00060
76-00016	76-00018
75-00028	75-00025
74-00038	74-00041
73-00033	73-00031
72-00054	72-00056
71-00025	71-00022
70-00038	70-00040
69-00077	69-00074
68-00194	68-00199
67-00289	67-00272
66-00075	66-00078
65-00035	65-00032
64-00093	64-00095
63-00226	63-00229
62-00103	62-00105
61-00007	61-00009
60-0178A	60-0176A
59-01107	59-01038
58-01432	58-01430
57-01433	57-01431
56-01430	56-01420
55-01431	55-01430
54-0142A	54-01432
53-0142B	53-01425
52-01429	52-01427
51-01433	51-01437
50-01430	50-01429
49-0143J	49-01434
48-01425	48-01424
47-0142B	47-01425
46-01425	46-01422
45-01427	45-01423
44-01428	44-0142J
43-01430	43-01424
42-01427	42-01429
41-0143A	41-01475
40-01432	40-01432
39-01427	39-01426
38-01430	38-01434
37-01432	37-01434
36-01431	36-01427
35-01428	35-01426
34-0143J	34-01430
33-01433	33-01424
32-01431	32-01428
31-01431	31-01430
30-01424	30-01426
29-0142A	29-01425
28-0142B	28-01424
27-01430	27-01424
26-01427	26-01426
25-01432	25-01428
24-01424	24-01430
23-01424	23-01423
22-01427	22-01425
21-01425	21-01421
20-0142F	20-01426
19-01433	19-01436
18-01424	18-01427
17-01428	17-01425
16-01430	16-01431
15-01428	15-01426
14-0142B	14-01427
13-01427	13-01427
12-0142B	12-01424
11-01427	11-01424
10-0142A	10-01423
09-01424	09-01417
08-01424	08-01411
07-01423	07-01423
06-01423	06-01420
05-01424	05-01420
04-01429	04-01422
03-01425	03-01421
02-01424	02-01424
01-01427	01-01424
00-01423	00-01416
0133040	0133030
00730700	00730700



THREE-BAY ELEMENT COMBINED LOADING TEST														
WHL ACQ=10.768 IN <sup>3</sup> ANAL COMPRESSION & PRESSURE TEST ON T78020H-3 MOD. TEST DATE 7-31-79														
REF TO POINT 7-3 5-2.5 LOAD TO FAILURE (3/16" STIFFENER OFFSET)														
DATA NO.	NOMINAL STRESS PSI	AXIAL LOAD LBS.	PRESS URE PSIG	W. IN.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD. CYL. PIN IN	HYD. CYL. PIN IN			
ACP0	0	0	0	0	100	100	100	100	500					
ACP1	0	0	0	0	100	100	100	100	500					
ACP1a	1,210	13,000	2	4.07	102	102	130	122	491					
ACP2	2,420	26,100	4	8.14	105	105	135	126	490					
ACP3	3,630	39,100	6	12.22	108	108	141	125	466					
ACP4	4,840	52,100	8	16.29	111	111	144	119	451					
ACP5	6,050	65,100	10	20.36	115	115	149	115	335					
ACP6	7,250	78,100	12	24.43	117	120	154	111	418					
ACP7*	1,210	13,000	2	4.07	108	109	134	125	486					
ACP8	8,460	91,100	14	28.50	121	124	161	113	404					
ACP9	9,670	104,100	16	32.58	124	128	169	106	391					
ACP10	10,880	117,200	18	36.65	126	130	178	104	379					
ACP11	12,090	130,200	20	40.72	128	132	191	104	368					
ACP12	13,300	143,200	22	44.79	129	134	209	107	357					
ACP13	14,510	156,200	24	48.86	130	135	236	115	347					
ACP14	15,720	169,300	25	52.94	130	135	254	124	342					
ACP15	15,720	169,300	26	52.94	130	135	276	139	335					
ACP16	16,930	175,300	27	54.97	130	135	286	152	329					
ACP17	16,930	182,300	28	57.01	130	135	309	169	323					
ACP18	17,530	188,800	29	57.04	130	135	330	191	317					
ACP19	18,140	195,300	30	61.08	129	134	375	216	310					
ACP20	18,740	201,800	31	63.12	129	134	419	250	304					
ACP21	19,310	208,300	32	65.15	129	133	480	293	295					
ACP22	19,950	214,800*	33*	67.19	126	132	515	408	283					
ACP23	1,210	13,000	2	4.07	1097	099	382	285	468					
ACP24	17,950	214,800**	33**	67.19	117	125	—	426	—					

TER073



## TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Proportional Axial Compression and Normal Pressure to Failure Page 1 of 4

DATA No. ACPO HYD CYL P IN OUT 2500 PSI	DATA No. ACPI HYD CYL P IN OUT 2500 PSI	DATA No. ACPI 13,000 PSI 2500 PSI	DATA No. ACPI 26,000 PSI 2500 PSI	DATA No. ACPI 39,000 PSI 2500 PSI	DATA No. ACPI 52,000 PSI 2500 PSI	DATA No. ACPI 65,000 PSI 2500 PSI
83-00001	83-00001	83-00001	83-00001	83-00001	83-00001	83-00001
82-00003	82-00003	82-00003	82-00003	82-00003	82-00003	82-00003
81-00001	81-00001	81-00001	81-00001	81-00001	81-00001	81-00001
80-00003	80-00003	80-00003	80-00003	80-00003	80-00003	80-00003
79-00000	79-00000	79-00000	79-00000	79-00000	79-00000	79-00000
78-00003	78-00003	78-00003	78-00003	78-00003	78-00003	78-00003
77-00003	77-00003	77-00003	77-00003	77-00003	77-00003	77-00003
76-00004	76-00004	76-00004	76-00004	76-00004	76-00004	76-00004
75-00000	75-00000	75-00000	75-00000	75-00000	75-00000	75-00000
74-00000	74-00000	74-00000	74-00000	74-00000	74-00000	74-00000
73-00000	73-00000	73-00000	73-00000	73-00000	73-00000	73-00000
72-00000	72-00000	72-00000	72-00000	72-00000	72-00000	72-00000
71-00000	71-00000	71-00000	71-00000	71-00000	71-00000	71-00000
70-00001	70-00001	70-00001	70-00001	70-00001	70-00001	70-00001
69-00001	69-00001	69-00001	69-00001	69-00001	69-00001	69-00001
68-00000	68-00000	68-00000	68-00000	68-00000	68-00000	68-00000
67-00000	67-00000	67-00000	67-00000	67-00000	67-00000	67-00000
66-00001	66-00001	66-00001	66-00001	66-00001	66-00001	66-00001
65-00001	65-00001	65-00001	65-00001	65-00001	65-00001	65-00001
64-00001	64-00001	64-00001	64-00001	64-00001	64-00001	64-00001
63-00001	63-00001	63-00001	63-00001	63-00001	63-00001	63-00001
62-00002	62-00002	62-00002	62-00002	62-00002	62-00002	62-00002
61-00000	61-00000	61-00000	61-00000	61-00000	61-00000	61-00000
60-00004	60-00004	60-00004	60-00004	60-00004	60-00004	60-00004
59-01153	59-01129	59-01129	59-01180	59-01107	59-01084	59-01061
58-00004	58-00003	58-00004	58-00003	58-00003	58-00003	58-00003
57-00001	57-00007	57-00072	57-00135	57-00189	57-00223	57-00253
56-00003	56-00001	56-00195	56-00435	56-00716	56-01064	56-01424
55-00002	55-00001	55-00040	55-00126	55-00240	55-00399	55-00558
54-00003	54-00004	54-00063	54-00103	54-00137	54-00156	54-00174
53-00005	53-00001	53-00165	53-00444	53-00791	53-01110	53-01478
52-00005	52-00002	52-00096	52-00273	52-00464	52-00685	52-00906
51-00004	51-00003	51-00033	51-00094	51-00166	51-00225	51-00350
50-00004	50-00007	50-00233	50-00460	50-00685	50-00909	50-01134
49-00000	49-00004	49-00076	49-00116	49-00153	49-00181	49-00207
48-00003	48-00000	48-00049	48-00067	48-00073	48-00081	48-00090
47-00002	47-00002	47-00112	47-00383	47-00669	47-00955	47-01306
46-00001	46-00004	46-00107	46-00159	46-00213	46-00263	46-00313
45-00002	45-00001	45-00032	45-00120	45-00275	45-00438	45-00597
44-00002	44-00003	44-00072	44-00357	44-00647	44-00936	44-01276
43-00003	43-00004	43-00146	43-00278	43-00445	43-00621	43-00836
42-00005	42-00007	42-00042	42-00016	42-00096	42-00210	42-00322
41-00005	41-00004	41-00025	41-00024	41-00043	41-00085	41-00185
40-00003	40-00004	40-00126	40-00251	40-00374	40-00496	40-00613
39-00004	39-00006	39-00035	39-00063	39-00135	39-00190	39-00241
38-00000	38-00000	38-00000	38-00000	38-00000	38-00000	38-00000
37-00003	37-00004	37-00149	37-00295	37-00439	37-00581	37-00723
36-00004	36-00004	36-00050	36-00114	36-00166	36-00215	36-00260
35-00004	35-00004	35-00037	35-00058	35-00060	35-00060	35-00063
34-00000	34-00005	34-00199	34-00396	34-00591	34-00787	34-00981
33-00003	33-00004	33-00122	33-00259	33-00396	33-00536	33-00676
32-00003	32-00006	32-00016	32-00019	32-00044	32-00063	32-00071
31-00005	31-00004	31-00006	31-00006	31-00009	31-00037	31-00068
30-00007	30-00004	30-00104	30-00088	30-00052	30-00010	30-00073
29-00002	29-00002	29-00002	29-00002	29-00004	29-00043	29-00074
28-00001	28-00004	28-00130	28-00293	28-00474	28-00649	28-00816
27-00004	27-00006	27-00015	27-00296	27-00435	27-00569	27-00705
26-00002	26-00007	26-00125	26-00241	26-00353	26-00454	26-00560
25-00002	25-00003	25-00094	25-00200	25-00309	25-00427	25-00547
24-00001	24-00007	24-00165	24-00332	24-00502	24-00677	24-00857
23-00003	23-00003	23-00037	23-00079	23-00137	23-00198	23-00260
22-00000	22-00003	22-00122	22-00257	22-00377	22-00498	22-00614
21-00002	21-00007	21-00174	21-00327	21-00475	21-00619	21-00764
20-00003	20-00010	20-00101	20-00087	20-00057	20-00009	20-00046
19-00002	19-00009	19-00101	19-00098	19-00060	19-00048	19-00016
18-00006	18-00002	18-00191	18-00380	18-00569	18-00751	18-00933
17-00001	17-00003	17-00119	17-00247	17-00375	17-00503	17-00628
16-00002	16-00004	16-00149	16-00273	16-00391	16-00503	16-00611
15-00001	15-00006	15-00150	15-00305	15-00463	15-00601	15-00750
14-00001	14-00005	14-00040	14-00091	14-00128	14-00162	14-00185
13-00001	13-00002	13-00127	13-00238	13-00341	13-00440	13-00530
12-00000	12-00002	12-00126	12-00253	12-00381	12-00505	12-00626
11-00000	11-00001	11-00034	11-00064	11-00133	11-00186	11-00230
10-00003	10-00012	10-00167	10-00306	10-00443	10-00577	10-00713
09-00000	09-00016	09-00062	09-00060	09-00069	09-00154	09-00240
08-00003	08-00015	08-00049	08-00050	08-00062	08-00134	08-00215
07-00001	07-00010	07-00032	07-00058	07-00084	07-00110	07-00139
06-00003	06-00006	06-00054	06-00058	06-00081	06-00112	06-00142
05-00002	05-00006	05-00074	05-00060	05-00073	05-00093	05-00119
04-00003	04-00006	04-00057	04-00117	04-00182	04-00258	04-00337
03-00001	03-00010	03-00019	03-00099	03-00164	03-00231	03-00297
02-00001	02-00004	02-00026	02-00057	02-00084	02-00117	02-00149
01-00001	01-00007	01-00022	01-00030	01-00043	01-00059	01-00070
00-00000	00-00007	00-00012	00-00019	00-00026	00-00033	00-00040
0133720	0133720	0133720	0133720	0133720	0133720	0133720
06731790	06731790	06731790	06731790	06731790	06731790	06731790



## TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Proportional Axial Compression and Normal Pressure to Failure Page 3 of 4

DATA No. ACP 13	DATA No. ACP 14	DATA No. ACP 15	DATA No. ACP 16	DATA No. ACP 17	DATA No. ACP 18	DATA No. ACP 19
156,200 <sup>2</sup> 24PSIG	162,700 <sup>2</sup> 25PSIG	169,300 <sup>2</sup> 26PSIG	175,700 <sup>2</sup> 27PSIG	182,300 <sup>2</sup> 28PSIG	188,800 <sup>2</sup> 29PSIG	195,300 <sup>2</sup> 30PSIG
83-000207	83-000216	83-000227	83-000230	83-000230	83-000237	83-000243
82-000170	82-000069	82-000074	82-000074	82-000079	82-000079	82-000082
81-000080	81-000071	81-000076	81-000100	81-000104	81-000109	81-000113
80-000050	80-000039	80-000045	80-000060	80-000060	80-000063	80-000065
79-000021	79-000021	79-000020	79-000031	79-000044	79-000056	79-000059
78-000036	78-000020	78-000020	78-000024	78-000027	78-000028	78-000031
77-000043	77-000042	77-000043	77-000043	77-000025	77-000036	77-000044
76-000004	76-000014	76-000013	76-000023	76-000032	76-000046	76-000060
75-000121	75-000111	75-000107	75-000104	75-000111	75-000113	75-000120
74-000068	74-000069	74-000077	74-000084	74-000089	74-000094	74-000096
73-000146	73-000149	73-000162	73-000172	73-000182	73-000194	73-000204
72-000343	72-000321	72-000350	72-000368	72-000391	72-000419	72-000450
71-000144	71-000146	71-000166	71-000166	71-000166	71-000190	71-000213
70-000055	70-000063	70-000072	70-000081	70-000086	70-000099	70-000109
69-000138	69-000120	69-000119	69-000114	69-000114	69-000115	69-000116
68-000025	68-000020	68-000012	68-000011	68-000012	68-000007	68-000021
67-000041	67-000040	67-000050	67-000043	67-000046	67-000059	67-000074
66-000243	66-000234	66-000272	66-000286	66-000306	66-000331	66-000359
65-000114	65-000119	65-000116	65-000117	65-000119	65-000137	65-000161
64-000052	64-000052	64-000058	64-000058	64-000058	64-000058	64-000061
63-000047	63-000046	63-000050	63-000052	63-000052	63-000054	63-000057
62-000082	62-000083	62-000087	62-000092	62-000097	62-000099	62-000104
61-000208	61-000203	61-000235	61-000244	61-000257	61-000274	61-000290
60-000155	60-000163	60-000181	60-000172	60-000188	60-000187	60-000193
59-000104	59-000099	59-000090	59-000083	59-000087	59-000093	59-000096
58-000000	58-000000	58-000000	58-000001	58-000000	58-000000	58-000000
57-000085	57-000082	57-000084	57-000084	57-000087	57-000086	57-000087
56-000000	56-000000	56-000000	56-000000	56-000000	56-000001	56-000001
55-000192	55-000187	55-000207	55-000237	55-000241	55-000242	55-000271
54-000234	54-000231	54-000231	54-000239	54-000239	54-000246	54-000257
53-000258	53-000253	53-000255	53-000259	53-000263	53-000267	53-000268
52-000264	52-000275	52-000280	52-000287	52-000292	52-000296	52-000297
51-000254	51-000266	51-000285	51-000280	51-000284	51-000287	51-000290
50-000281	50-000295	50-000316	50-000299	50-000308	50-000324	50-000320
49-000304	49-000299	49-000256	49-000233	49-000236	49-000246	49-000254
48-000270	48-000262	48-000281	48-000284	48-000288	48-000288	48-000288
47-000267	47-000256	47-000256	47-000264	47-000265	47-000265	47-000265
46-000591	46-000597	46-000592	46-000599	46-000611	46-000631	46-000655
45-000192	45-000212	45-000212	45-000224	45-000232	45-000246	45-000260
44-000250	44-000281	44-000281	44-000315	44-000323	44-000323	44-000341
43-000155	43-000166	43-000174	43-000184	43-000217	43-000236	43-000262
42-000162	42-000131	42-000179	42-000175	42-000198	42-000212	42-000253
41-000469	41-000440	41-000422	41-000415	41-000416	41-000420	41-000442
40-000966	40-000903	40-000862	40-000800	40-000811	40-000855	40-000917
39-000123	39-000075	39-000361	39-000077	39-000116	39-000138	39-000142
38-000000	38-000000	38-000000	38-000000	38-000000	38-000000	38-000000
37-000213	37-000044	37-000577	37-000528	37-000480	37-000453	37-000470
36-000067	36-000168	36-000465	36-000092	36-000139	36-000289	36-000411
35-000063	35-000016	35-000379	35-000010	35-000142	35-000253	35-000341
34-000201	34-000181	34-000126	34-000125	34-000120	34-000141	34-000140
33-000170	33-000090	33-000054	33-000246	33-000526	33-000785	33-000957
32-000132	32-000144	32-000244	32-000241	32-000245	32-000291	32-000319
31-000276	31-000319	31-000548	31-000946	31-000137	31-000330	31-000520
30-000043	30-000094	30-000573	30-000977	30-000167	30-000166	30-000222
29-000252	29-000241	29-000336	29-000359	29-000343	29-000425	29-000476
28-000154	28-000154	28-000154	28-000155	28-000160	28-000165	28-000175
27-000204	27-000224	27-000307	27-000307	27-000322	27-000338	27-000353
26-000085	26-000055	26-000019	26-000017	26-000037	26-000043	26-000083
25-000164	25-000180	25-000185	25-000189	25-000210	25-000217	25-000231
24-000271	24-000278	24-000330	24-000327	24-000372	24-000392	24-000411
23-000287	23-000285	23-000263	23-000378	23-000410	23-000467	23-000496
22-000126	22-000123	22-000114	22-000114	22-000153	22-000156	22-000187
21-000143	21-000246	21-000213	21-000200	21-000261	21-000307	21-000337
20-000041	20-000056	20-000014	20-000040	20-000100	20-000151	20-000183
19-000322	19-000425	19-000541	19-000930	19-000114	19-000285	19-000489
18-000170	18-000133	18-000157	18-000124	18-000126	18-000149	18-000135
17-000700	17-000076	17-000220	17-000064	17-000099	17-000096	17-000115
16-000507	16-000271	16-000131	16-000077	16-000102	16-000139	16-000175
15-000284	15-000389	15-000464	15-000467	15-000524	15-000529	15-000556
14-000061	14-000373	14-000048	14-000132	14-000142	14-000154	14-000167
13-000433	13-000272	13-000111	13-000129	13-000247	13-000336	13-000402
12-000015	12-000016	12-000099	12-000422	12-000429	12-000506	12-000648
11-000103	11-000281	11-000096	11-000047	11-000043	11-000190	11-000221
10-000179	10-000122	10-000275	10-000238	10-000273	10-000283	10-000316
9-000267	9-000144	9-000016	9-000021	9-000041	9-000064	9-000076
8-000067	8-000146	8-000125	8-000149	8-000167	8-000184	8-000184
7-000166	7-000131	7-000131	7-000115	7-000081	7-000045	7-000001
6-000204	6-000278	6-000291	6-000341	6-000323	6-000345	6-000375
5-000227	5-000243	5-000213	5-000259	5-000343	5-000325	5-000380
4-000179	4-000121	4-000134	4-000156	4-000165	4-000179	4-000209
3-000294	3-000272	3-000262	3-000275	3-000314	3-000340	3-000358
2-000196	2-000170	2-000134	2-000118	2-000084	2-000047	2-000000
1-000033	1-000041	1-000061	1-000079	1-000082	1-000091	1-000099
0-000000	0-000013	0-000050	0-000063	0-000063	0-000081	0-000082
0-000000	0-000000	0-000000	0-000000	0-000000	0-000000	0-000000

## TERO73

Test Data - 3-Bay Element No. TT802041-3 Mod. (All stiffeners bowed 3/16")  
Proportional Axial Compression and Normal Pressure to Failure Page 4 of 4

DATA No. ACP20	DATA No. ACP21	DATA No. ACP22	DATA No. ACP23	DATA No. ACP24	POST TEST	PRE TEST
201,800	206,300	214,800	215,000	214,800	33,500	33,500
31,500	32,500	32,500	32,500	32,500	32,500	32,500
03-00250	03-00250	03-00250	03-00250	03-00250	03-00250	03-00250
02-00003	02-00003	02-00003	02-00003	02-00003	02-00003	02-00003
01-00117	01-00117	01-00117	01-00117	01-00117	01-00117	01-00117
00-00067	00-00067	00-00067	00-00067	00-00067	00-00067	00-00067
79-00003	79-00003	79-00003	79-00003	79-00003	79-00003	79-00003
78-00319	78-00319	78-00319	78-00319	78-00319	78-00319	78-00319
77-00052	77-00052	77-00052	77-00052	77-00052	77-00052	77-00052
76-00018	76-00018	76-00018	76-00018	76-00018	76-00018	76-00018
75-00124	75-00124	75-00124	75-00124	75-00124	75-00124	75-00124
74-00003	74-00003	74-00003	74-00003	74-00003	74-00003	74-00003
73-00227	73-00227	73-00227	73-00227	73-00227	73-00227	73-00227
72-00003	72-00003	72-00003	72-00003	72-00003	72-00003	72-00003
71-00210	71-00210	71-00210	71-00210	71-00210	71-00210	71-00210
70-00003	70-00003	70-00003	70-00003	70-00003	70-00003	70-00003
69-00119	69-00119	69-00119	69-00119	69-00119	69-00119	69-00119
68-00003	68-00003	68-00003	68-00003	68-00003	68-00003	68-00003
67-00003	67-00003	67-00003	67-00003	67-00003	67-00003	67-00003
66-00391	66-00391	66-00391	66-00391	66-00391	66-00391	66-00391
65-00003	65-00003	65-00003	65-00003	65-00003	65-00003	65-00003
64-00003	64-00003	64-00003	64-00003	64-00003	64-00003	64-00003
63-00003	63-00003	63-00003	63-00003	63-00003	63-00003	63-00003
62-00106	62-00106	62-00106	62-00106	62-00106	62-00106	62-00106
61-00308	61-00308	61-00308	61-00308	61-00308	61-00308	61-00308
60-02005	60-02005	60-02005	60-02005	60-02005	60-02005	60-02005
59-00003	59-00003	59-00003	59-00003	59-00003	59-00003	59-00003
58-00003	58-00003	58-00003	58-00003	58-00003	58-00003	58-00003
57-00003	57-00003	57-00003	57-00003	57-00003	57-00003	57-00003
56-00117	56-00117	56-00117	56-00117	56-00117	56-00117	56-00117
55-03006	55-03006	55-03006	55-03006	55-03006	55-03006	55-03006
54-00003	54-00003	54-00003	54-00003	54-00003	54-00003	54-00003
53-00119	53-00119	53-00119	53-00119	53-00119	53-00119	53-00119
52-07005	52-07005	52-07005	52-07005	52-07005	52-07005	52-07005
51-02273	51-02273	51-02273	51-02273	51-02273	51-02273	51-02273
50-03287	50-03287	50-03287	50-03287	50-03287	50-03287	50-03287
49-00003	49-00003	49-00003	49-00003	49-00003	49-00003	49-00003
48-03355	48-03355	48-03355	48-03355	48-03355	48-03355	48-03355
47-03895	47-03895	47-03895	47-03895	47-03895	47-03895	47-03895
46-00652	46-00652	46-00652	46-00652	46-00652	46-00652	46-00652
45-02677	45-02677	45-02677	45-02677	45-02677	45-02677	45-02677
44-05566	44-05566	44-05566	44-05566	44-05566	44-05566	44-05566
43-02886	43-02886	43-02886	43-02886	43-02886	43-02886	43-02886
42-02404	42-02404	42-02404	42-02404	42-02404	42-02404	42-02404
41-00693	41-00693	41-00693	41-00693	41-00693	41-00693	41-00693
40-00010	40-00010	40-00010	40-00010	40-00010	40-00010	40-00010
39-01524	39-01524	39-01524	39-01524	39-01524	39-01524	39-01524
38-00003	38-00003	38-00003	38-00003	38-00003	38-00003	38-00003
37-05188	37-05188	37-05188	37-05188	37-05188	37-05188	37-05188
36-01198	36-01198	36-01198	36-01198	36-01198	36-01198	36-01198
35-00403	35-00403	35-00403	35-00403	35-00403	35-00403	35-00403
34-01128	34-01128	34-01128	34-01128	34-01128	34-01128	34-01128
33-01124	33-01124	33-01124	33-01124	33-01124	33-01124	33-01124
32-03550	32-03550	32-03550	32-03550	32-03550	32-03550	32-03550
31-01815	31-01815	31-01815	31-01815	31-01815	31-01815	31-01815
30-01227	30-01227	30-01227	30-01227	30-01227	30-01227	30-01227
29-00131	29-00131	29-00131	29-00131	29-00131	29-00131	29-00131
28-01724	28-01724	28-01724	28-01724	28-01724	28-01724	28-01724
27-03670	27-03670	27-03670	27-03670	27-03670	27-03670	27-03670
26-01093	26-01093	26-01093	26-01093	26-01093	26-01093	26-01093
25-02482	25-02482	25-02482	25-02482	25-02482	25-02482	25-02482
24-00399	24-00399	24-00399	24-00399	24-00399	24-00399	24-00399
23-05525	23-05525	23-05525	23-05525	23-05525	23-05525	23-05525
22-01604	22-01604	22-01604	22-01604	22-01604	22-01604	22-01604
21-03757	21-03757	21-03757	21-03757	21-03757	21-03757	21-03757
20-01173	20-01173	20-01173	20-01173	20-01173	20-01173	20-01173
19-01735	19-01735	19-01735	19-01735	19-01735	19-01735	19-01735
18-01122	18-01122	18-01122	18-01122	18-01122	18-01122	18-01122
17-01390	17-01390	17-01390	17-01390	17-01390	17-01390	17-01390
16-02094	16-02094	16-02094	16-02094	16-02094	16-02094	16-02094
15-05726	15-05726	15-05726	15-05726	15-05726	15-05726	15-05726
14-01736	14-01736	14-01736	14-01736	14-01736	14-01736	14-01736
13-00498	13-00498	13-00498	13-00498	13-00498	13-00498	13-00498
12-00899	12-00899	12-00899	12-00899	12-00899	12-00899	12-00899
11-01306	11-01306	11-01306	11-01306	11-01306	11-01306	11-01306
10-03504	10-03504	10-03504	10-03504	10-03504	10-03504	10-03504
9-001370	9-001370	9-001370	9-001370	9-001370	9-001370	9-001370
8-002067	8-002067	8-002067	8-002067	8-002067	8-002067	8-002067
7-000048	7-000048	7-000048	7-000048	7-000048	7-000048	7-000048
6-004327	6-004327	6-004327	6-004327	6-004327	6-004327	6-004327
5-003977	5-003977	5-003977	5-003977	5-003977	5-003977	5-003977
4-002345	4-002345	4-002345	4-002345	4-002345	4-002345	4-002345
3-003001	3-003001	3-003001	3-003001	3-003001	3-003001	3-003001
2-000094	2-000094	2-000094	2-000094	2-000094	2-000094	2-000094
1-009743	1-009743	1-009743	1-009743	1-009743	1-009743	1-009743
0-007594	0-007594	0-007594	0-007594	0-007594	0-007594	0-007594
01504500	01504500	01504500	01504500	01504500	01504500	01504500
00131700	00131700	00131700	00131700	00131700	00131700	00131700

NORMAL PRESSURE TEST ON TI802041-3A MOD. TEST DATE 8-15-79  
REF. TI000017 RP 3.5.2.1 (3 1/2" S'FFENER OFFSET)

DATA No.	PRESSURE		DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.	DIAL IND.
	PSIG	IN.Hg	D1	D2	D3	D4	D5	
P1	0	0	—	—	.100	.100	.500	
P2	2.0	4.07	—	—	.123	.128	.502	
P3	4.0	8.14	—	—	.126	.133	.500	
P4	6.0	12.22	—	—	.127	.135	.497	
P5	8.0	16.29	—	—	.127	.135	.492	
P6	2.0	4.07	—	—	.127	.130	.503	
P7	10.0	20.36	—	—	.130	.137	.488	
P8	12.0	24.43	—	—	.132	.139	.483	
P9	14.0	28.50	—	—	.135	.141	.477	
P10	2.0	4.07	—	—	.130	.136	.503	
P11	0	0	—	—	.115	.127	.503	

## TERO73

Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure

Page 1 of 2

DATA No. P1	DATA No. P2	DATA No. P3	DATA No. P4	DATA No. P5	DATA No. P6	DATA No. P7
0PSIG	2PSIG	4PSIG	6PSIG	8PSIG	2PSIG	10PSIG
83+00000	83+00030	83+00048	83+00061	83+00077	83+00037	83+00042
82+00000	82+00024	82+00037	82+00040	82+00044	82+00033	82+00044
81+00000	81+00027	81+00041	81+00045	81+00049	81+00036	81+00042
80+00000	80+00027	80+00031	80+00035	80+00039	80+00030	80+00043
79+00001	79+00001	79+00030	79+00032	79+00034	79+00031	79+00033
78+00001	78+00042	78+00060	78+00078	78+00095	78+00045	78+00111
77+00001	77+00043	77+00063	77+00084	77+00103	77+00052	77+00082
76+00001	76+00042	76+00061	76+00072	76+00081	76+00048	76+00035
75+00000	75+00047	75+00075	75+00092	75+00113	75+00054	75+00137
74+00001	74+00000	74+00002	74+00003	74+00004	74+00004	74+00004
73+00001	73+00039	73+00057	73+00070	73+00082	73+00050	73+00095
72+00001	72+00044	72+00069	72+00088	72+00114	72+00050	72+00119
71+00000	71+00044	71+00057	71+00076	71+00086	71+00051	71+00098
70+00000	70+00075	70+00087	70+00099	70+00104	70+00050	70+00112
69+00001	69+00050	69+00077	69+00095	69+00116	69+00053	69+00134
68+00001	68+00008	68+00010	68+00019	68+00025	68+00045	68+00030
67+00001	67+00001	67+00001	67+00001	67+00002	67+00002	67+00001
66+00001	66+00042	66+00063	66+00078	66+00091	66+00050	66+00109
65+00000	65+00043	65+00064	65+00084	65+00104	65+00064	65+00033
64+00001	64+00020	64+00030	64+00034	64+00047	64+00029	64+00042
63+00001	63+00037	63+00036	63+00041	63+00043	63+00035	63+00046
62+00000	62+00025	62+00035	62+00044	62+00051	62+00030	62+00054
61+00000	61+00024	61+00047	61+00063	61+00073	61+00036	61+00089
60+00003	60+00033	60+00044	60+00054	60+00063	60+00043	60+00066
59+00047	59+00037	59+00087	59+00087	59+00082	59+00082	59+00079
58+00000	58+00001	58+00001	58+00002	58+00001	58+00002	58+00002
57+00001	57+00035	57+00074	57+00122	57+00167	57+00022	57+00023
56+00002	56+00130	56+00098	56+00041	56+00073	56+00089	56+00072
55+00001	55+00029	55+00091	55+00164	55+00337	55+00015	55+00011
54+00001	54+00042	54+00106	54+00173	54+00293	54+00036	54+00033
53+00001	53+00102	53+00290	53+00498	53+00744	53+00074	53+00092
52+00003	52+00087	52+00236	52+00403	52+00596	52+00063	52+00078
51+00002	51+00118	51+00264	51+00414	51+00573	51+00118	51+00071
50+00000	50+00095	50+00171	50+00264	50+00413	50+00096	50+00039
49+00002	49+00032	49+00102	49+00173	49+00252	49+00034	49+00033
48+00001	48+00044	48+00088	48+00130	48+00166	48+00037	48+00038
47+00000	47+00076	47+00276	47+00488	47+00712	47+00064	47+00077
46+00003	46+00002	46+00036	46+00108	46+00164	46+00010	46+00022
45+00001	45+00089	45+00010	45+00044	45+00084	45+00043	45+00045
44+00001	44+00038	44+00058	44+00073	44+00086	44+00041	44+00041
43+00002	43+00052	43+00094	43+00111	43+00131	43+00058	43+00053
42+00001	42+00242	42+00354	42+00459	42+00554	42+00029	42+00039
41+00003	41+00224	41+00315	41+00401	41+00498	41+00231	41+00050
40+00000	40+00116	40+00245	40+00379	40+00517	40+00123	40+00063
39+00002	39+00071	39+00167	39+00270	39+00378	39+00075	39+00046
38+00003	38+00068	38+00106	38+00137	38+00196	38+00072	38+00180
37+00001	37+00072	37+00024	37+00024	37+00018	37+00023	37+00011
36+00002	36+00152	36+00303	36+00453	36+00597	36+00153	36+00038
35+00001	35+00161	35+00305	35+00444	35+00582	35+00161	35+00013
34+00004	34+00183	34+00373	34+00563	34+00751	34+00184	34+00039
33+00004	33+00154	33+00326	33+00499	33+00670	33+00156	33+00043
32+00000	32+00074	32+00123	32+00166	32+00201	32+00079	32+00036
31+00004	31+00212	31+00329	31+00435	31+00523	31+00216	31+00010
30+00002	30+00329	30+00515	30+00683	30+00821	30+00337	30+00056
29+00001	29+00208	29+00403	29+00595	29+00778	29+00210	29+00071
28+00001	28+00187	28+00374	28+00560	28+00742	28+00188	28+00024
27+00000	27+00042	27+00041	27+00076	27+00086	27+00042	27+00047
26+00002	26+00046	26+00049	26+00090	26+00109	26+00045	26+00114
25+00001	25+00093	25+00211	25+00331	25+00454	25+00096	25+00081
24+00000	24+00047	24+00197	24+00301	24+00447	24+00099	24+00016
23+00001	23+00220	23+00431	23+00638	23+00842	23+00222	23+00045
22+00006	22+00184	22+00373	22+00556	22+00735	22+00191	22+00014
21+00000	21+00074	21+00118	21+00160	21+00195	21+00075	21+00021
20+00000	20+00257	20+00413	20+00544	20+00667	20+00266	20+00050
19+00002	19+00255	19+00409	19+00536	19+00648	19+00266	19+00075
18+00001	18+00181	18+00364	18+00546	18+00727	18+00184	18+00046
17+00002	17+00154	17+00326	17+00494	17+00663	17+00156	17+00033
16+00001	16+00044	16+00079	16+00101	16+00118	16+00051	16+00130
15+00000	15+00021	15+00024	15+00025	15+00024	15+00017	15+00024
14+00001	14+00154	14+00318	14+00469	14+00617	14+00160	14+00071
13+00001	13+00170	13+00322	13+00468	13+00610	13+00170	13+00047
12+00000	12+00283	12+00477	12+00627	12+00770	12+00287	12+00040
11+00000	11+00046	11+00116	11+00201	11+00287	11+00049	11+00033
10+00001	10+00048	10+00073	10+00099	10+00121	10+00049	10+00146
09+00000	09+00184	09+00284	09+00369	09+00437	09+00246	09+00040
08+00001	08+00234	08+00384	08+00470	08+00562	08+00252	08+00052
07+00001	07+00081	07+00125	07+00194	07+00270	07+00097	07+00031
06+00000	06+00133	06+00231	06+00343	06+00468	06+00164	06+00070
05+00000	05+00104	05+00245	05+00376	05+00511	05+00133	05+00016
04+00003	04+00121	04+00266	04+00409	04+00559	04+00149	04+00070
03+00001	03+00039	03+00161	03+00277	03+00391	03+00086	03+00037
02+00002	02+00054	02+00130	02+00242	02+00359	02+00061	02+00038
01+00007	01+00146	01+00316	01+00484	01+00646	01+00152	01+00046
00+00001	00+00141	00+00391	00+00619	00+00837	00+00209	00+00107
01334180	01334540	013348100	013348500	01334100	013346030	01334100
00187900	00187900	00187900	00187900	00187900	00187900	00187900



## TER073

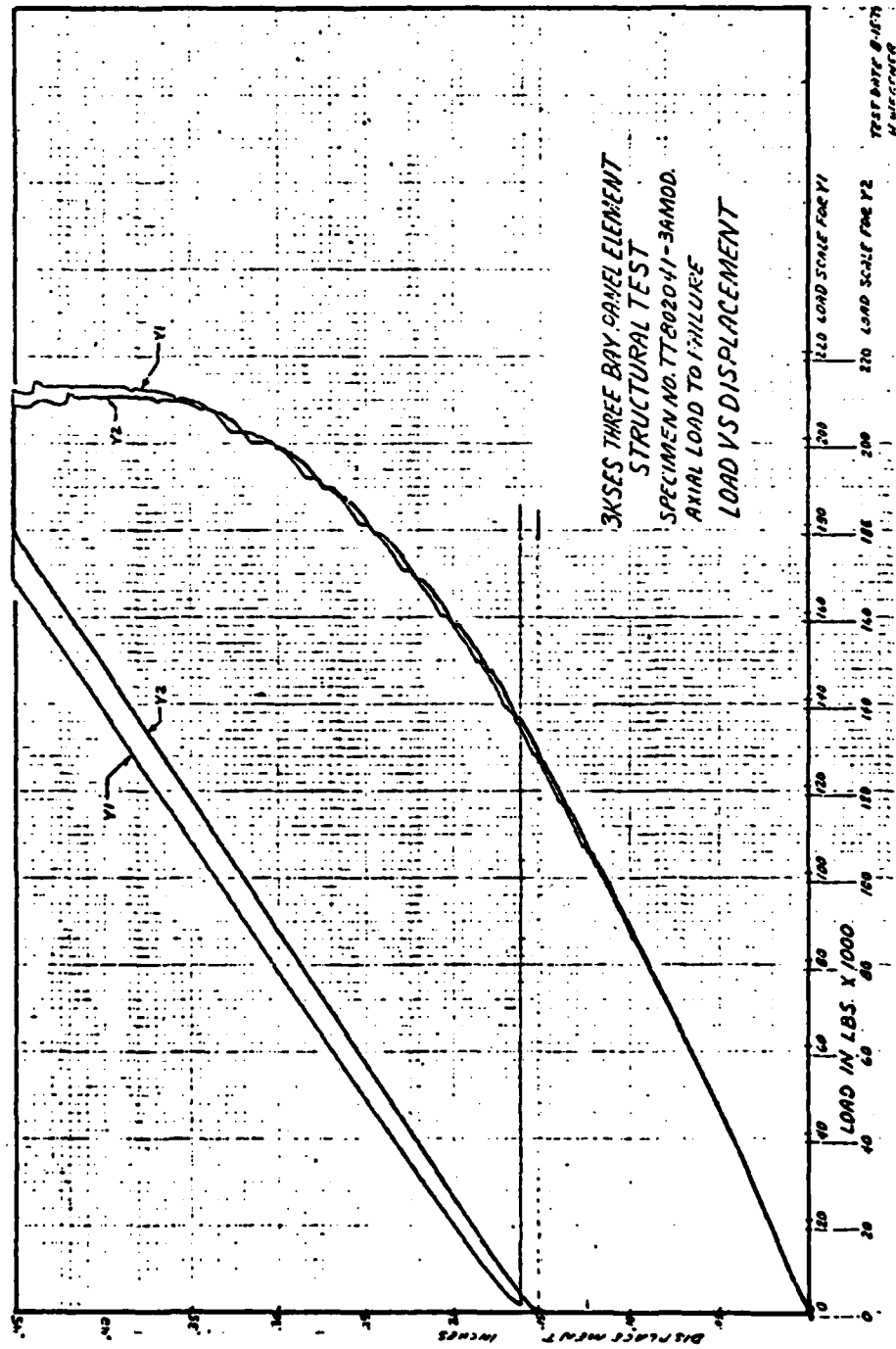
Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")  
Elastic Normal Pressure

Page 2 of 2

DATA No. P8 12 PSIG	DATA No. P9 14 PSIG	DATA No. P10 2.0 PSIG	DATA No. P11 0 PSIG	PRETEST P. CAL	POST TEST P. CAL
83-00109	83-00124	83-00037	83-00021	83-00052	83-00053
82-00053	82-00057	82-00037	82-00017	82-00057	82-00054
81-00068	81-00077	81-00040	81-00021	81-00050	81-00052
80-00044	80-00046	80-00030	80-00020	80-00002	80-00005
79-00003	79-00005	79-00003	79-00000	79-00180	79-00119
78-00126	78-00144	78-00048	78-00026	78-00086	78-00086
77-00002	77-00002	77-00002	77-00005	77-00040	77-00038
76-00042	76-00044	76-00007	76-00002	76-00152	76-00150
75-00150	75-00156	75-00055	75-00028	75-00069	75-00072
74-00004	74-00004	74-00004	74-00001	74-00072	74-00074
73-00105	73-00116	73-00053	73-00033	73-00006	73-00006
72-00138	72-00157	72-00054	72-00030	72-00032	72-00034
71-00107	71-00120	71-00053	71-00037	71-00005	71-00002
70-00015	70-00014	70-00006	70-00005	70-00181	70-00178
69-00153	69-00170	69-00057	69-00032	69-00081	69-00077
68-00034	68-00037	68-00010	68-00003	68-00047	68-00044
67-00001	67-00004	67-00001	67-00001	67-00089	67-00089
66-00122	66-00136	66-00049	66-00031	66-00027	66-00029
65-00003	65-00003	65-00003	65-00003	65-00253	65-00250
64-00046	64-00049	64-00027	64-00019	64-00220	64-00222
63-00049	63-00053	63-00035	63-00030	63-00059	63-00061
62-00060	62-00070	62-00034	62-00024	62-00048	62-00049
61-00105	61-00112	61-00037	61-00025	61-00059	61-00057
60-00003	60-00004	60-00003	60-00003	60-00179	60-00006
59-00075	59-00073	59-00061	59-00031	59-00002	59-00003
58-00001	58-00002	58-00002	58-00004	58-00127	58-00127
57-00021	57-00031	57-00027	57-00008	57-00127	57-00122
56-00124	56-00169	56-00009	56-00076	56-00125	56-00124
55-00061	55-00064	55-00023	55-00010	55-00126	55-00129
54-00015	54-00046	54-00039	54-00007	54-00125	54-00120
53-00124	53-00147	53-00056	53-00060	53-00124	53-00127
52-00084	52-00117	52-00060	52-00033	52-00112	52-00112
51-00090	51-00101	51-00117	51-00004	51-00124	51-00134
50-00047	50-00051	50-00075	50-00022	50-00126	50-00106
49-00015	49-00047	49-00044	49-00001	49-00124	49-00130
48-00094	48-00132	48-00069	48-00151	48-00125	48-00126
47-00121	47-00121	47-00087	47-00192	47-00125	47-00120
46-00081	46-00036	46-00014	46-00003	46-00120	46-00123
45-00096	45-00037	45-00053	45-00073	45-00124	45-00123
44-00078	44-00126	44-00256	44-00353	44-00127	44-00173
43-00114	43-00195	43-00061	43-00032	43-00124	43-00134
42-00096	42-00077	42-00021	42-00134	42-00124	42-00156
41-00580	41-00046	41-00046	41-00139	41-00129	41-00156
40-00006	40-00047	40-00124	40-00017	40-00125	40-00143
39-00007	39-00071	39-00075	39-00002	39-00123	39-00127
38-00020	38-00024	38-00014	38-00039	38-00119	38-00127
37-00005	37-00001	37-00025	37-00020	37-00127	37-00110
36-00082	36-00126	36-00055	36-00026	36-00126	36-00122
35-00049	35-00044	35-00161	35-00030	35-00123	35-00123
34-00130	34-00125	34-00167	34-00023	34-00122	34-00140
33-00107	33-00109	33-00154	33-00013	33-00127	33-00110
32-00273	32-00311	32-00062	32-00036	32-00124	32-00121
31-00098	31-00072	31-00224	31-00095	31-00129	31-00126
30-00109	30-00123	30-00352	30-00190	30-00132	30-00150
29-00114	29-00137	29-00211	29-00037	29-00127	29-00127
28-00109	28-00124	28-00192	28-00032	28-00125	28-00126
27-00108	27-00120	27-00044	27-00025	27-00124	27-00127
26-00132	26-00146	26-00045	26-00020	26-00122	26-00127
25-00070	25-00036	25-00047	25-00046	25-00126	25-00122
24-00024	24-00039	24-00100	24-00014	24-00123	24-00123
23-00121	23-00156	23-00225	23-00038	23-00124	23-00124
22-00192	22-00126	22-00191	22-00032	22-00119	22-00125
21-00267	21-00306	21-00078	21-00032	21-00121	21-00124
20-00085	20-00107	20-00276	20-00106	20-00123	20-00123
19-00080	19-00090	19-00280	19-00112	19-00123	19-00123
18-00108	18-00126	18-00161	18-00129	18-00123	18-00124
17-00102	17-00116	17-00154	17-00012	17-00121	17-00121
16-00143	16-00137	16-00093	16-00020	16-00124	16-00126
15-00023	15-00024	15-00018	15-00010	15-00126	15-00127
14-00007	14-00006	14-00162	14-00025	14-00123	14-00120
13-00088	13-00123	13-00170	13-00030	13-00123	13-00125
12-00099	12-00072	12-00042	12-00016	12-00124	12-00122
11-00047	11-00057	11-00052	11-00013	11-00124	11-00124
10-00112	10-00147	10-00054	10-00023	10-00123	10-00123
09-00087	09-00056	09-00210	09-00090	09-00125	09-00125
08-00073	08-00038	08-00055	08-00102	08-00122	08-00126
07-00011	07-00040	07-00061	07-00004	07-00125	07-00124
06-00110	06-00134	06-00169	06-00016	06-00123	06-00121
05-00075	05-00112	05-00120	05-00035	05-00123	05-00120
04-00047	04-00093	04-00126	04-00001	04-00122	04-00126
03-00046	03-00091	03-00088	03-00026	03-00121	03-00127
02-00032	02-00045	02-00070	02-00004	02-00122	02-00120
01-00110	01-00116	01-00027	01-00022	01-00121	01-00121
00-00126	00-00180	00-00316	00-00118	00-00126	00-00121
01402600	01415200	01415200	01415200	01320330	01402600
000157900	000157900	000157900	000157900	000157900	000157900

CALCULATED  
 PANEL AREA = 10.604 IN.<sup>2</sup>  
 THREE-BAY ELEMENT COMBINED LOADING TEST  
 AXIAL COMPRESSION TEST ON TT 802041-3A MOD. TEST DATE 8-15-79  
 (3/16" STIFFENER OFFSET)  
 LOAD TO FAILURE

DATA NO.	NOMINAL STRESS KSI	AXIAL LOAD LBS.	DIAL IND. D1	DIAL IND. D2	DIAL IND. D3	DIAL IND. D4	DIAL IND. D5	HYD.	CYL. PIN IN	CYL. PIN OUT
AC1	0	0	.100	.100	.100	.100	.500	HYD.		
AC2	0	0	.100	.100	.103	.103	.500	HYD.	CYL. PIN IN	
AC3	2	21,210	.102	.102	.092	.084	.491			
AC4	4	42,420	.106	.106	.092	.084	.463			
AC5	6	63,620	.112	.112	.095	.086	.445			
AC6	8	84,830	.118	.119	.100	.088	.422			
AC7	10	106,000	.125	.127	.107	.095	.400			
AC8	11	116,600	.128	.130	.113	.099	.390			
AC9	12	127,200	.132	.134	.120	.105	.378			
AC10	13	137,900	.135	.137	.130	.116	.365			
AC11	14	148,500	.138	.140	.141	.129	.350			
AC12	15	159,100	.141	.144	.155	.248	.334			
AC13	16	169,700	.144	.146	.180	.277	.316			
AC14	17	180,300	.147	.149	.218	.210	.304			
AC15	18	190,900	.149	.152	.267	.258	.271			
AC16	19	201,500	.151	.154	.337	.319	.240			
AC17	20	212,100	.154	.157	.475	.470	.150			
AC18	20.9	221,600	MAX. LOAD ATTAINED - LOAD DROPPED					OFF BEFORE DATA COULD BE TAKEN		
AC18	0	0	.106	.106	.553	.580	.310	HYD.	CYL. PIN IN	
AC19	0	0	.106	.105	.552	.580	.311	HYD.	CYL. PIN OUT	



Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")  
Axial Compression to Failure

**B-796**

## TERO73

Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")  
 Axial Compression to Failure

Page 2 of 3

DATA No. ACB 17,200 LBS	DATA No. AC9 17,200 LBS	DATA No. AC10 137,700 LBS	DATA No. AC11 144,500 LBS	DATA No. AC12 157,100 LBS	DATA No. AC13 169,700 LBS	DATA No. AC14 180,300 LBS
83-00027	83-00046	83-00008	83-00001	83-00018	83-00036	83-00057
82-00013	82-00013	82-00016	82-00016	82-00019	82-00016	82-00016
81-00023	81-00023	81-00028	81-00027	81-00027	81-00027	81-00027
80-00026	80-00026	80-00031	80-00031	80-00031	80-00031	80-00031
79-00007	79-00007	79-00002	79-00018	79-00003	79-00011	79-00013
78-00016	78-00017	78-00024	78-00037	78-00024	78-00016	78-00016
77-00018	77-00014	77-00014	77-00007	77-00004	77-00004	77-00014
76-00050	76-00000	76-00009	76-00002	76-00019	76-00032	76-00013
75-00081	75-00009	75-00016	75-00031	75-00004	75-00022	75-00024
74-00032	74-00001	74-00000	74-00004	74-00002	74-00010	74-00022
73-00007	73-00002	73-00006	73-00001	73-00010	73-00014	73-00007
72-00019	72-00014	72-00014	72-00005	72-00030	72-00006	72-00010
71-00054	71-00008	71-00008	71-00007	71-00006	71-00005	71-00019
70-00006	70-00002	70-00004	70-00007	70-00004	70-00017	70-00013
69-00010	69-00013	69-00012	69-00015	69-00017	69-00022	69-00026
68-00057	68-00006	68-00000	68-00003	68-00012	68-00015	68-00017
67-00014	67-00022	67-00022	67-00018	67-00009	67-00019	67-00009
66-00014	66-00013	66-00014	66-00013	66-00002	66-00000	66-00014
65-00015	65-00016	65-00016	65-00016	65-00016	65-00016	65-00016
64-00015	64-00015	64-00015	64-00017	64-00020	64-00020	64-00020
63-00026	63-00026	63-00026	63-00030	63-00030	63-00030	63-00031
62-00027	62-00026	62-00026	62-00032	62-00032	62-00032	62-00032
61-00005	61-00018	61-00041	61-00044	61-00041	61-00044	61-00046
60-01157	60-01203	60-01399	60-01474	60-01574	60-01682	60-01789
59-00554	59-00554	59-00554	59-00554	59-00554	59-00554	59-00554
58-00001	58-00002	58-00001	58-00001	58-00001	58-00002	58-00001
57-00017	57-01018	57-01116	57-01212	57-01310	57-01409	57-01506
56-00621	56-00691	56-00705	56-00998	56-01087	56-01208	56-01344
55-00703	55-00746	55-00774	55-00742	55-00436	55-00271	55-00127
54-00098	54-01049	54-01121	54-01235	54-01341	54-01445	54-01560
53-00791	53-00946	53-01044	53-00807	53-00227	53-00001	53-00001
52-00043	52-00020	52-00004	52-00082	52-01120	52-01606	52-01693
51-00082	51-00040	51-01004	51-01149	51-00997	51-00410	51-00073
50-01241	50-01327	50-01377	50-01421	50-01512	50-01609	50-01706
49-00081	49-01070	49-01197	49-01241	49-01332	49-01430	49-01530
48-00095	48-00064	48-00077	48-00094	48-01007	48-01194	48-01374
47-00049	47-00009	47-00016	47-00024	47-00159	47-00036	47-00013
46-00040	46-01036	46-01136	46-01236	46-01347	46-01463	46-01582
45-00554	45-00554	45-00554	45-00560	45-00641	45-00726	45-00815
44-00070	44-00015	44-00020	44-01007	44-01003	44-01090	44-01185
43-00049	43-01041	43-01141	43-01250	43-01345	43-01439	43-01532
42-01042	42-01773	42-01871	42-02219	42-02306	42-02366	42-02404
41-01316	41-01403	41-01475	41-01511	41-01510	41-01510	41-01510
40-00024	40-00080	40-00034	40-00034	40-00034	40-00034	40-00034
39-00013	39-00017	39-00033	39-00006	39-00006	39-00006	39-00006
38-00089	38-00076	38-00076	38-00065	38-00029	38-00029	38-00029
37-01215	37-01354	37-01425	37-01760	37-02340	37-02713	37-03083
36-00036	36-00078	36-01106	36-01128	36-01436	36-01769	36-02109
35-00214	35-00243	35-00316	35-00511	35-00659	35-00835	35-01047
34-00241	34-00263	34-00295	34-00354	34-00456	34-00593	34-00717
33-00282	33-00323	33-00377	33-00404	33-00474	33-00544	33-00614
32-00093	32-00095	32-01103	32-01177	32-01374	32-01584	32-01781
31-01175	31-01247	31-01295	31-01298	31-00647	31-00017	31-00027
30-02184	30-02065	30-02013	30-03270	30-04003	30-04624	30-05243
29-00019	29-00047	29-00117	29-00315	29-00490	29-00662	29-00831
28-00613	28-00672	28-00723	28-00737	28-00664	28-00662	28-00662
27-01044	27-01118	27-01199	27-01670	27-02314	27-02970	27-03626
26-00092	26-00021	26-00004	26-00079	26-00033	26-00012	26-00006
25-00017	25-00033	25-00011	25-00029	25-00004	25-00000	25-00000
24-00086	24-00074	24-00064	24-01044	24-01069	24-01206	24-01344
23-00093	23-00081	23-00041	23-00319	23-00306	23-00306	23-00306
22-00521	22-00571	22-00616	22-00636	22-00643	22-00613	22-00613
21-00029	21-01014	21-01145	21-01219	21-01314	21-01431	21-01539
20-01898	20-01770	20-01699	20-02242	20-02704	20-03279	20-03850
19-01610	19-01731	19-01823	19-01819	19-01420	19-01193	19-00943
18-00292	18-00275	18-00305	18-00344	18-00307	18-00307	18-00307
17-00249	17-00280	17-00325	17-00410	17-00409	17-00409	17-00409
16-00078	16-00027	16-00000	16-00000	16-00000	16-00000	16-00000
15-01093	15-01162	15-01296	15-01519	15-02193	15-02866	15-03540
14-00723	14-00009	14-00014	14-01206	14-01799	14-02472	14-03146
13-00042	13-00020	13-00001	13-00081	13-00039	13-00016	13-00000
12-00057	12-00040	12-00027	12-00031	12-00030	12-00030	12-00030
11-00000	11-00001	11-00000	11-00014	11-00010	11-00007	11-00007
10-00078	10-01065	10-01120	10-01201	10-01244	10-01244	10-01244
9-01367	9-01474	9-01569	9-01617	9-01606	9-01606	9-01606
8-01695	8-01677	8-01669	8-02352	8-02792	8-03235	8-03678
7-01040	7-01114	7-01141	7-01336	7-01537	7-01737	7-01937
6-00633	6-00664	6-00691	6-00659	6-00659	6-00659	6-00659
5-00040	5-00002	5-00000	5-00000	5-00000	5-00000	5-00000
4-00098	4-00076	4-00046	4-00032	4-00016	4-00000	4-00000
3-01542	3-01742	3-01942	3-02142	3-02342	3-02542	3-02742
2-00099	2-01099	2-02099	2-03099	2-04099	2-05099	2-06099
1-00050	1-00021	1-00000	1-00000	1-00000	1-00000	1-00000
0-00071	0-00077	0-00077	0-00077	0-00077	0-00077	0-00077
01322000	01322100	01322200	01322300	01322400	01322500	01322600
000157900	000157900	000157900	000157900	000157900	000157900	000157900

## TERO73

Test Data - 3-Bay Element No. TT802041-3A Mod. (All stiffeners bowed 3/16")  
Axial Compression to Failure

Page 3 of 3

DATA No. AC15 190.900 LBS	DATA No. AC16 201.500 LBS	DATA No. AC17 212.100 LBS	DATA No. AC18 212.200 LBS HYD. CYL. PIN IN ZERO LOAD	DATA No. AC19 212.200 LBS HYD. CYL. PIN OUT ZERO LOAD	P/E TEST R CAL	POST TEST R CALS
83-00177	83-00200	83-00236	83-00115	83-00116	83-00072	83-00073
82-00016	82-00016	82-00023	82-00022	82-00023	82-00071	82-00072
81-00027	81-00027	81-00034	81-00046	81-00026	81-00015	81-00020
80-00040	80-00040	80-00053	80-00064	80-00041	80-00024	80-00025
79-00158	79-00186	79-00226	79-00108	79-00109	79-00118	79-00178
78-00212	78-00235	78-00280	78-00194	78-00193	78-00062	78-00062
77-00143	77-00171	77-00242	77-00111	77-00110	77-00332	77-00333
76-00206	76-00232	76-00297	76-00090	76-00089	76-00147	76-00147
75-00283	75-00344	75-00422	75-00053	75-00051	75-00095	75-00095
74-00152	74-00195	74-00294	74-00034	74-00031	74-00074	74-00075
73-00105	73-00141	73-00237	73-00026	73-00023	73-00049	73-00040
72-00083	72-00095	72-00163	72-00044	72-00044	72-00099	72-00099
71-00123	71-00149	71-00252	71-00021	71-00021	71-00063	71-00063
70-00167	70-00210	70-00335	70-00037	70-00037	70-00174	70-00174
69-00024	69-00045	69-00085	69-00012	69-00012	69-00049	69-00049
68-00204	68-00241	68-00401	68-00046	68-00046	68-00040	68-00040
67-00009	67-00017	67-00018	67-00027	67-00024	67-00091	67-00091
66-00136	66-00164	66-00234	66-00025	66-00025	66-00054	66-00055
65-00115	65-00156	65-00229	65-00045	65-00044	65-00247	65-00247
64-00020	64-00021	64-00027	64-00037	64-00036	64-00237	64-00237
63-00030	63-00031	63-00036	63-00047	63-00047	63-00090	63-00090
62-00032	62-00032	62-00040	62-00051	62-00051	62-00064	62-00064
61-00151	61-00157	61-00167	61-00067	61-00067	61-00037	61-00037
60-01195	60-02001	60-02104	60-00001	60-00001	60-01792	60-01790
59-00531	59-00532	59-00532	59-00526	59-00526	59-00607	59-00598
58-00001	58-00002	58-00002	58-00002	58-00002	58-01430	58-01431
57-01623	57-01764	57-02011	57-00313	57-00312	57-01827	57-01827
56-04057	56-04345	56-05132	56-01741	56-01741	56-01826	56-01826
55-00088	55-00350	55-00813	55-00067	55-00065	55-01427	55-01427
54-01694	54-01866	54-02178	54-00057	54-00055	54-01826	54-01826
53-00334	53-00331	53-01048	53-01675	53-01674	53-01824	53-01824
52-01999	52-01976	52-01976	52-00053	52-00052	52-01827	52-01827
51-00509	51-00040	51-00713	51-00053	51-00053	51-01832	51-01832
50-02300	50-02328	50-03103	50-01407	50-01402	50-01828	50-01828
49-01664	49-01625	49-02154	49-00052	49-00050	49-01827	49-01827
48-01740	48-01624	48-00994	48-00039	48-00039	48-01824	48-01824
47-00313	47-00072	47-00089	47-01227	47-01241	47-01824	47-01824
46-01713	46-01671	46-02125	46-00081	46-00081	46-01810	46-01810
45-00007	45-00235	45-00408	45-00033	45-00034	45-01821	45-01820
44-01961	44-02049	44-01744	44-00049	44-00049	44-01825	44-01825
43-02138	43-02545	43-03689	43-03664	43-03662	43-01825	43-01825
42-03462	42-04410	42-04579	42-00046	42-00043	42-01810	42-01810
41-00736	41-00385	41-00469	41-02057	41-02053	41-01818	41-01818
40-01193	40-01424	40-04511	40-07723	40-07717	40-01825	40-01825
39-00827	39-00264	39-00724	39-01582	39-01581	39-01826	39-01826
38-00422	38-00574	38-00923	38-01094	38-01089	38-01824	38-01824
37-03104	37-03139	37-02965	37-01567	37-01584	37-01829	37-01829
36-03095	36-03485	36-04033	36-03180	36-03176	36-01828	36-01828
35-01337	35-01533	35-01924	35-02781	35-02777	35-01821	35-01821
34-00924	34-01438	34-03025	34-03242	34-03245	34-01824	34-01824
33-01207	33-01191	33-00837	33-00663	33-00664	33-01827	33-01827
32-02013	32-02360	32-03396	32-02600	32-02604	32-01826	32-01826
31-00241	31-00024	31-00498	31-01100	31-01094	31-01822	31-01822
30-07424	30-08549	30-09203	30-02640	30-02641	30-01819	30-01819
29-01180	29-01112	29-00727	29-00292	29-00292	29-01825	29-01825
28-01644	28-02315	28-04559	28-01110	28-01101	28-01825	28-01825
27-03029	27-03518	27-05136	27-05537	27-05546	27-01825	27-01825
26-00984	26-01449	26-02623	26-02410	26-02409	26-01825	26-01825
25-01080	25-01051	25-00702	25-00738	25-00738	25-01825	25-01825
24-02697	24-02944	24-03320	24-04242	24-04239	24-01821	24-01821
23-00998	23-00885	23-00279	23-00766	23-00766	23-01820	23-01820
22-01623	22-02341	22-05048	22-06736	22-06726	22-01825	22-01825
21-02092	21-02497	21-03629	21-02646	21-02641	21-01823	21-01823
20-04694	20-05407	20-05450	20-00408	20-00406	20-01816	20-01816
19-00726	19-00371	19-00072	19-01618	19-01614	19-01819	19-01819
18-00944	18-00949	18-02449	18-02691	18-02685	18-01820	18-01820
17-01470	17-01550	17-01244	17-01477	17-01474	17-01824	17-01824
16-00554	16-00068	16-01444	16-01847	16-01846	16-01829	16-01829
15-03314	15-03411	15-03276	15-01049	15-01042	15-01825	15-01825
14-03193	14-03480	14-04286	14-03464	14-03464	14-01823	14-01823
13-01492	13-01723	13-02113	13-02966	13-02962	13-01820	13-01820
12-00938	12-01757	12-05072	12-09952	12-09952	12-01822	12-01822
11-00086	11-00246	11-01104	11-01737	11-01736	11-01822	11-01822
10-02217	10-02761	10-04441	10-04477	10-04469	10-01822	10-01822
99-00593	99-00033	99-01471	99-02741	99-02697	99-01818	99-01818
98-04406	98-04408	98-05034	98-00048	98-00046	98-01814	98-01814
97-01494	97-02184	97-03047	97-02164	97-02161	97-01828	97-01828
96-00845	96-00736	96-01689	96-02239	96-02236	96-01821	96-01821
95-01738	95-01784	95-01947	95-00100	95-00100	95-01841	95-01841
94-00182	94-00287	94-00604	94-01187	94-01186	94-01829	94-01829
93-03161	93-03654	93-04234	93-02444	93-02449	93-01846	93-01846
92-01780	92-01917	92-02312	92-00934	92-00934	92-01829	92-01829
91-02091	91-02079	91-01846	91-00336	91-00336	91-01846	91-01846
90-00187	90-00034	90-00703	90-03369	90-03370	90-01829	90-01829
89-00920	89-03310	89-07140	89-02340	89-02340	89-06900	89-06900
88-01900	88-01900	88-01900	88-01900	88-01900	88-01900	88-01900

APPENDIX C

ALTERNATE STIFFENER CONFIGURATIONS

## APPENDIX C

### ALTERNATE STIFFENER CONFIGURATIONS

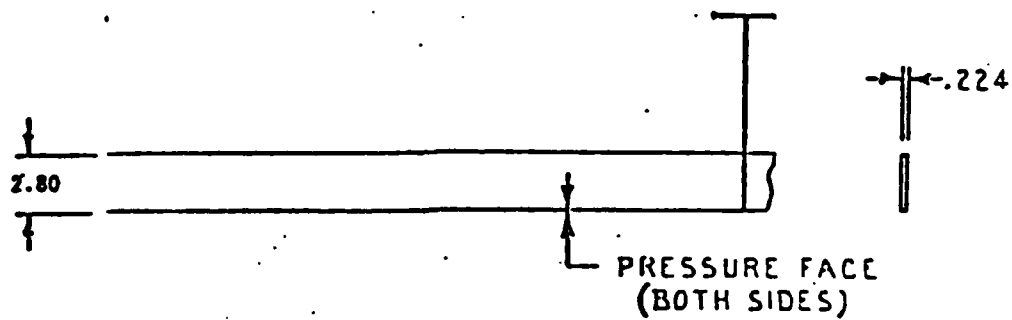
Design sketches listed in Figure C-1 for typical stiffener configurations are presented in Figures C-2 through C-5.

Baseline Stiffener Dash Number*	Straight Flat Bar Stringer	Light Weight Haunched Flat Bar Stringer	Rigid Haunched Flat Bar Stringer	Haunched Tee Stringer
201	C-2	---	---	C-5
209	C-2	C-3	C-4	C-5
213	C-2	C-3	C-4	C-5

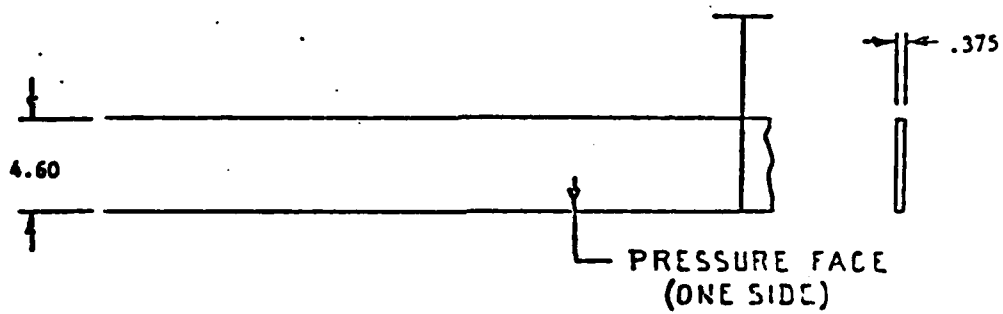
\*Drawing Number LL101004, Extrusions-Structural

Figure C-1. Stiffener Configuration Matrix

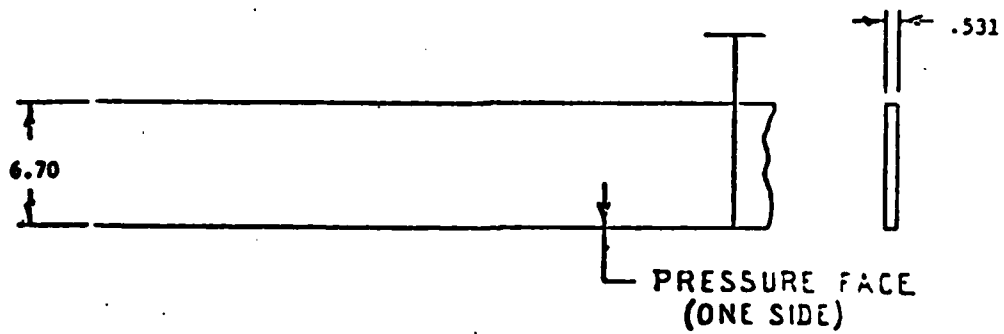




REPLACES -201 TEE

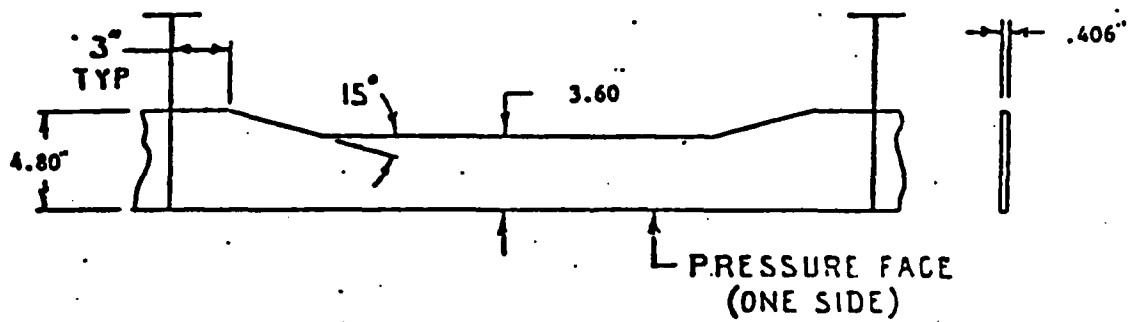


REPLACES -209 TEE

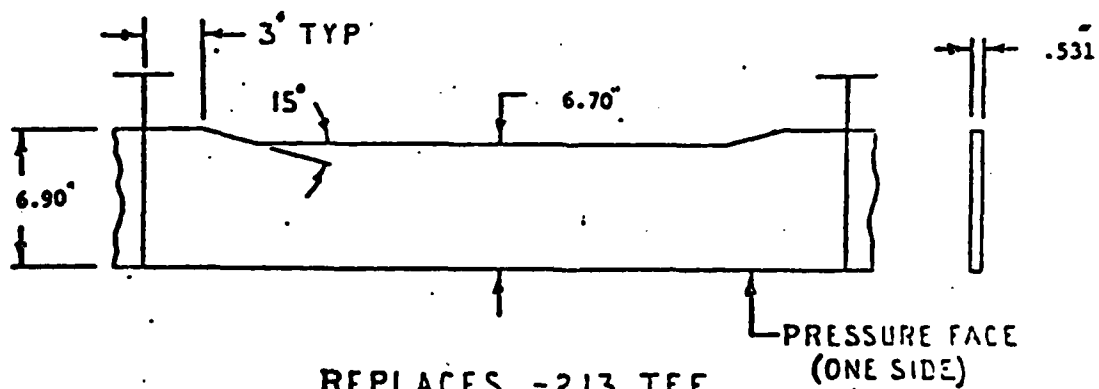


REPLACES -213 TEE

Figure C-2. Straight Flat Bar Stringer.

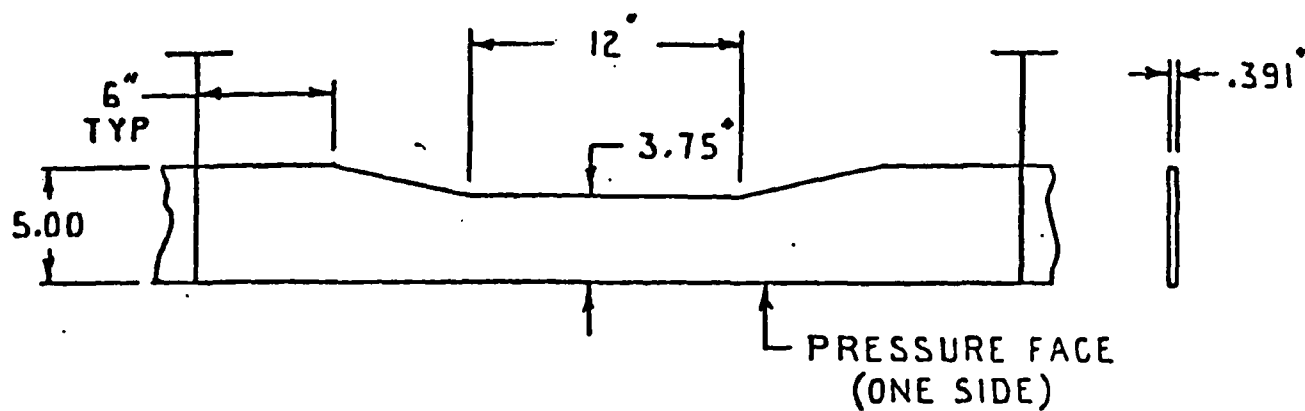


REPLACES -209 TEE

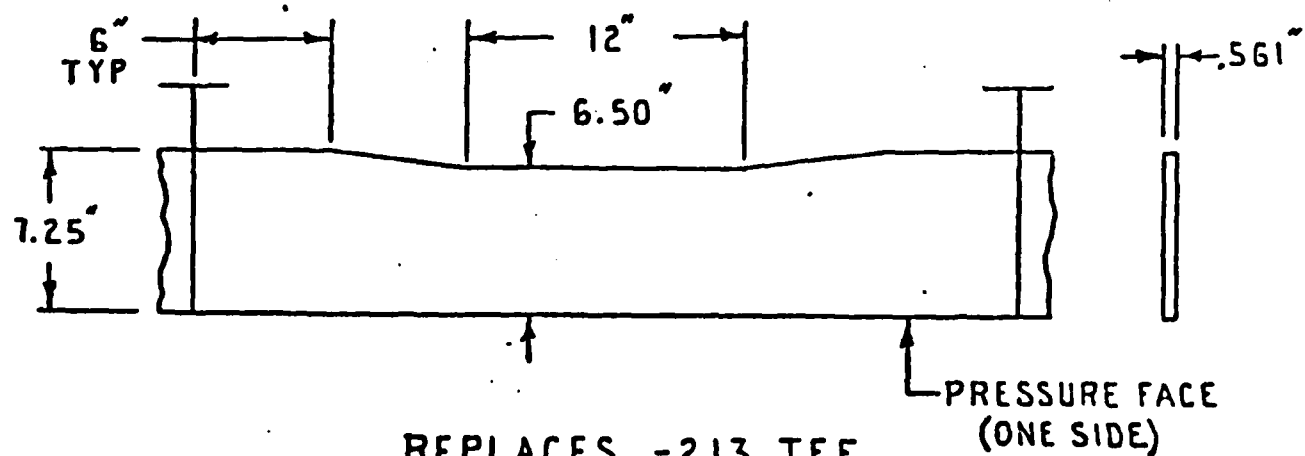


REPLACES -213 TEE

Figure C-3. Light Weight Haunched Flat Bar Stringer.



REPLACES -209 TEE



REPLACES -213 TEE

Figure C-4. Rigid Haunched Flat Bar Stringer.

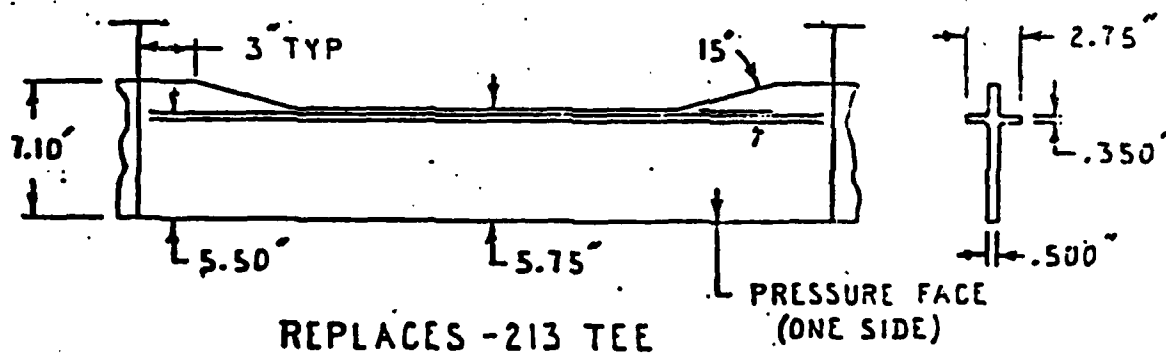
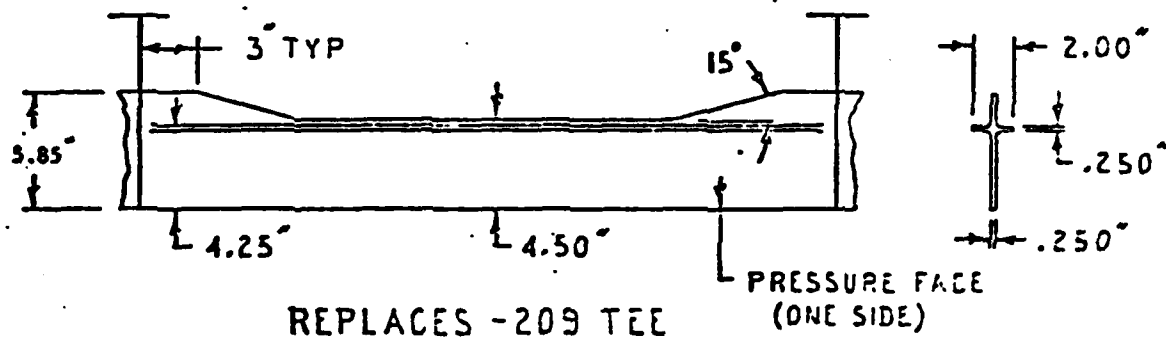
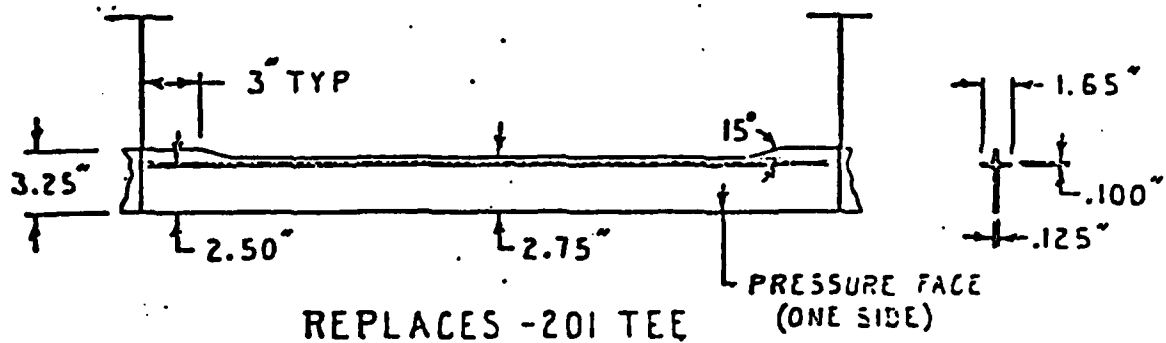


Figure C-5. Haunched Tee Stringer.

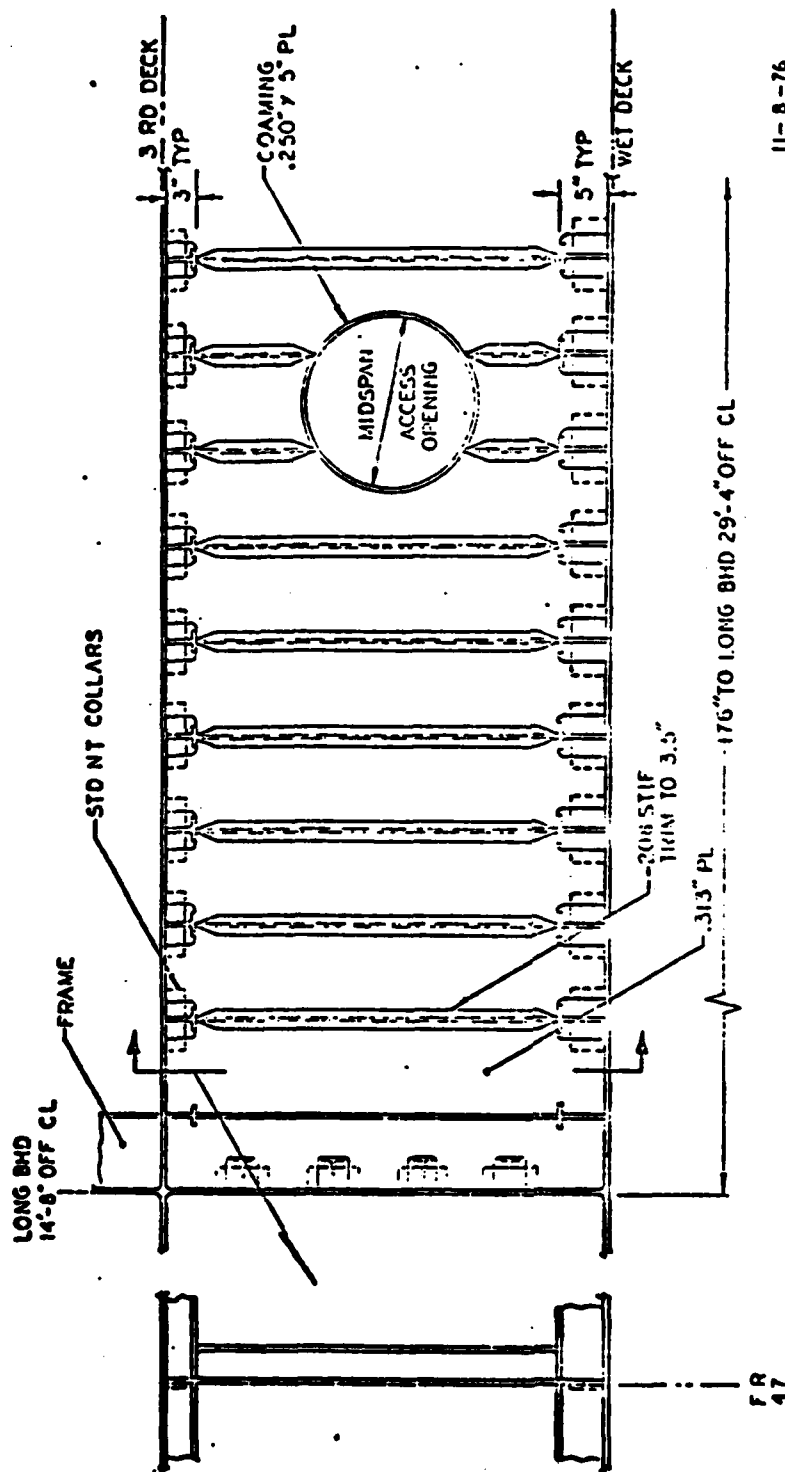
APPENDIX D

ALTERNATE INNER BOTTOM FLOOR CONFIGURATIONS

# ALTERNATE INNER BOTTOM FLOOR CONFIGURATIONS

Included in this Appendix are typical design sketches of all alternate frame configurations included in this study. Scantlings are presented for wet deck hydrodynamic pressures of 30 and 60 psi.

<u>Drawing</u>	<u>Page</u>
Inner Bottom Girder, Const. Web without Trans. Flat Bars (30 psi) . . . . .	D-2
Inner Bottom Girder, Const. Web without Trans, Flat Bars (60 psi) . . . . .	D-3
Inner Bottom Girder, Stepped Web without Trans. Flat Bars (30 psi) . . . . .	D-4
Inner Bottom Girder, Stepped Web without Trans. Flat Bars (60 psi) . . . . .	D-5
Inner Bottom Girder, Const. Web with Trans. Flat Bars (30 psi) . .	D-6
Inner Bottom Girder, Const. Web with Trans. Flat Bars (60 psi) . .	D-7
Inner Bottom Girder, Stepped Web with Trans. Flat Bars (30 psi). .	D-8
Inner Bottom Girder, Stepped Web with Trans. Flat Bars (60 psi). .	D-9
Round Tube Concept, Inner Bottom Truss (30 psi) . . . . .	D-10
Round Tube Concept, Inner ottom Truss (60 psi) . . . . .	D-11



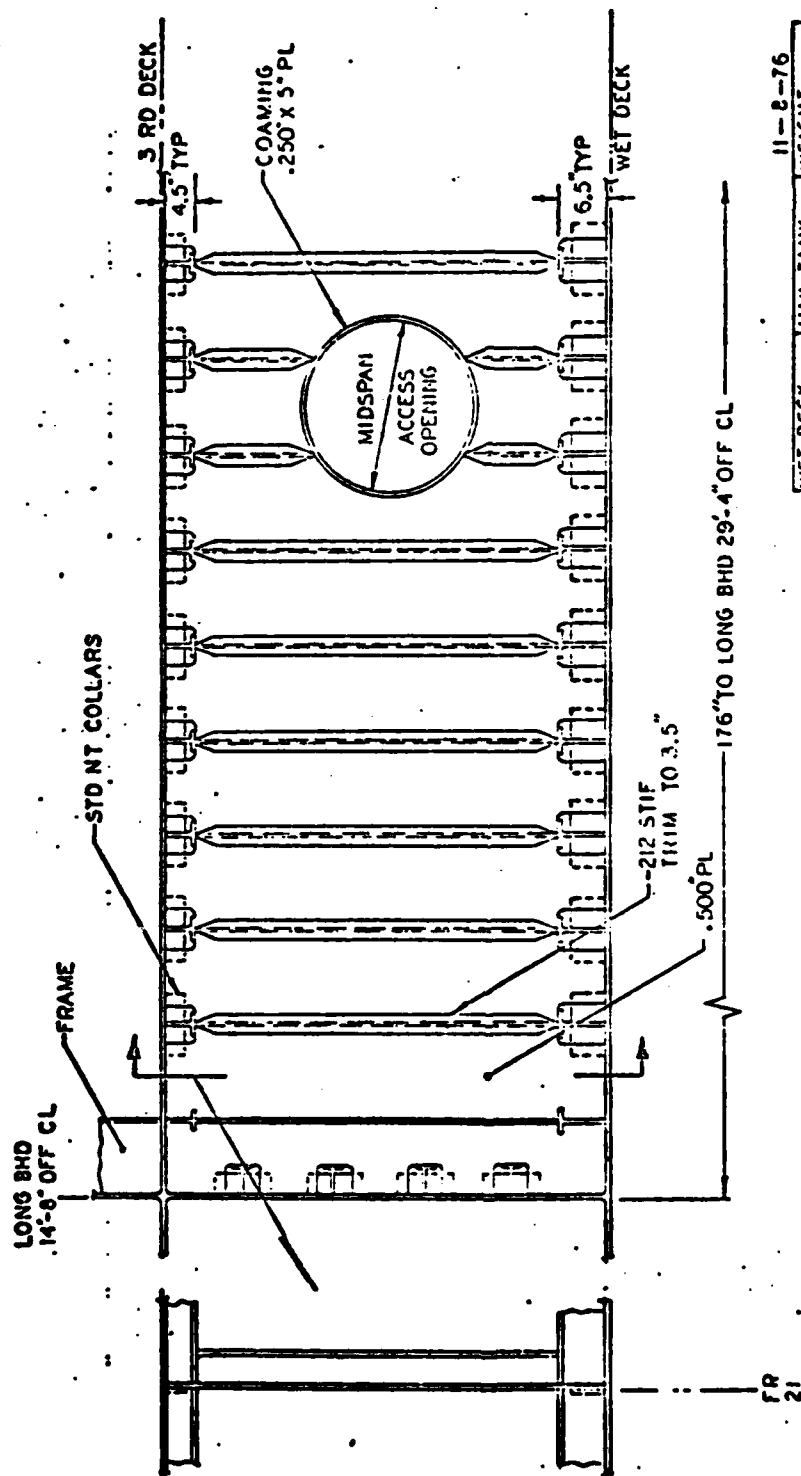
11-8-76

WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	WEIGHT (LBS/DAY)
30	24.7	312

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: SKES FRAME 47

# INNER BOTTOM GIRDER CONST WEB WITHOUT TRANSVERSE FLAT BARS

Figure 1-2. Inner Bottom Girder Const. Web without Trans. Flat Bars (30 psi).



11-8-76

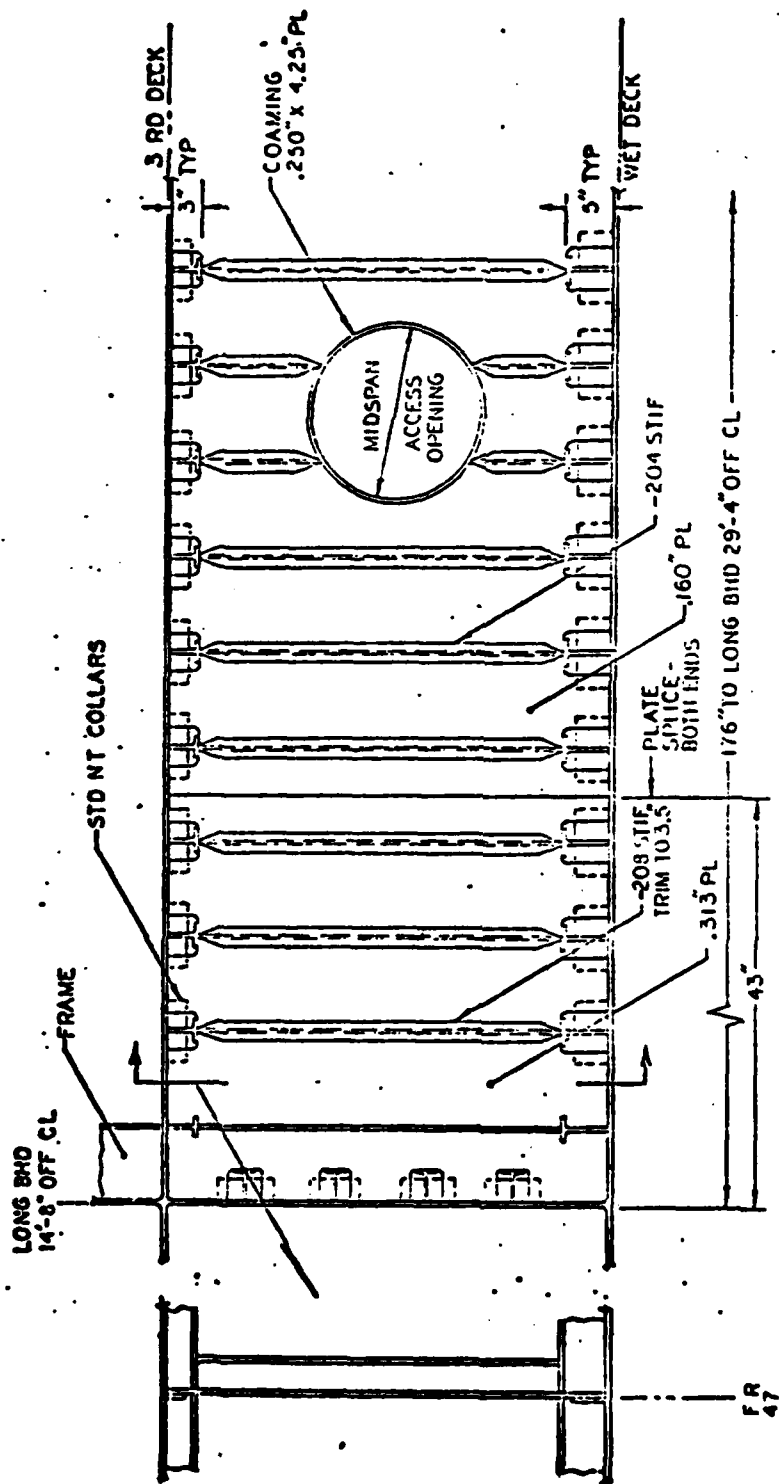
WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/9AV)
PRESSURE (PSI)	(PSI)	X
60	24.7	497

INNER BOTTOM GIRDER  
CONST WEB WITHOUT TRANSVERSE FLAT BARS

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: 3KSES FRAME 21

Figure 10-3. Inner Bottom Girder, Const. Web without Trans. Flat Bars (60 psi).





11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC PRESSURE (PSI)	24.7	(LBS/BAY)
30		*

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: SKES FRAME 47

INNER BOTTOM GIRDER  
STEPPED WEB WITHOUT TRANSVERSE FLAT BARS

Figure 1-4. Inner Bottom Girder, Stepped Web without Trans. Flat Bars (30 psi).

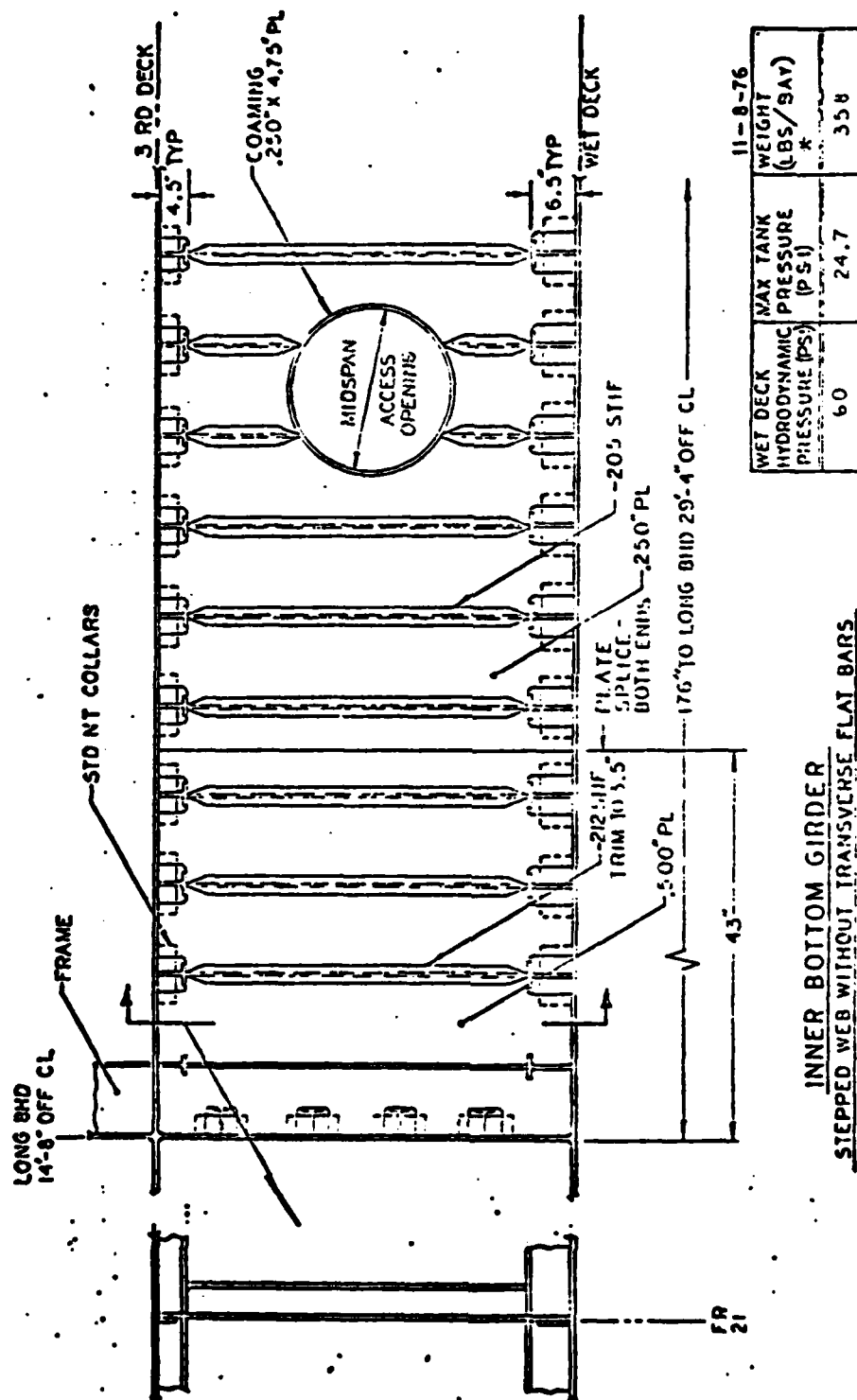
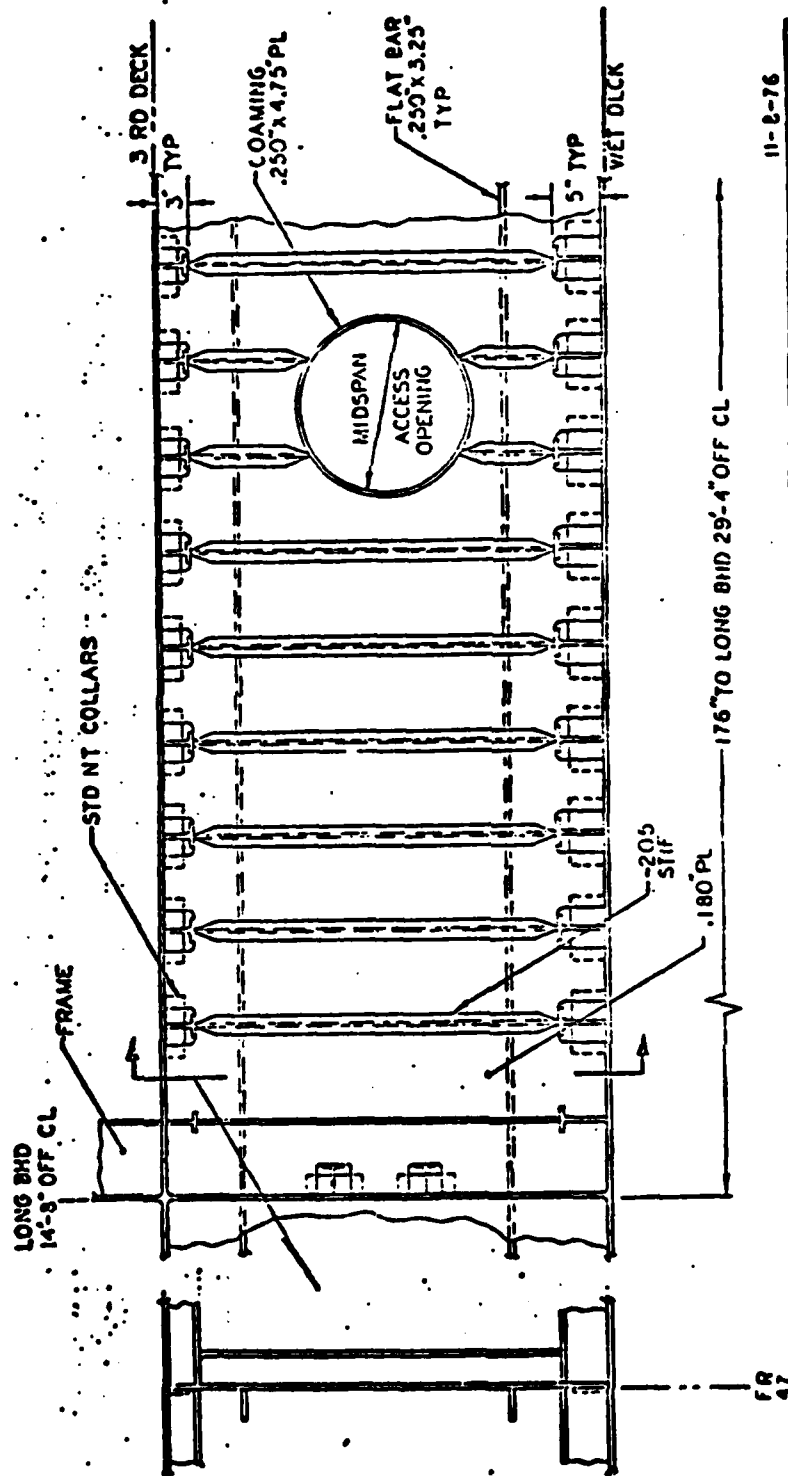


Figure 1.-5. Inner Bottom Girder, Stepped Web without Trans. Flat Bars (60 psi).



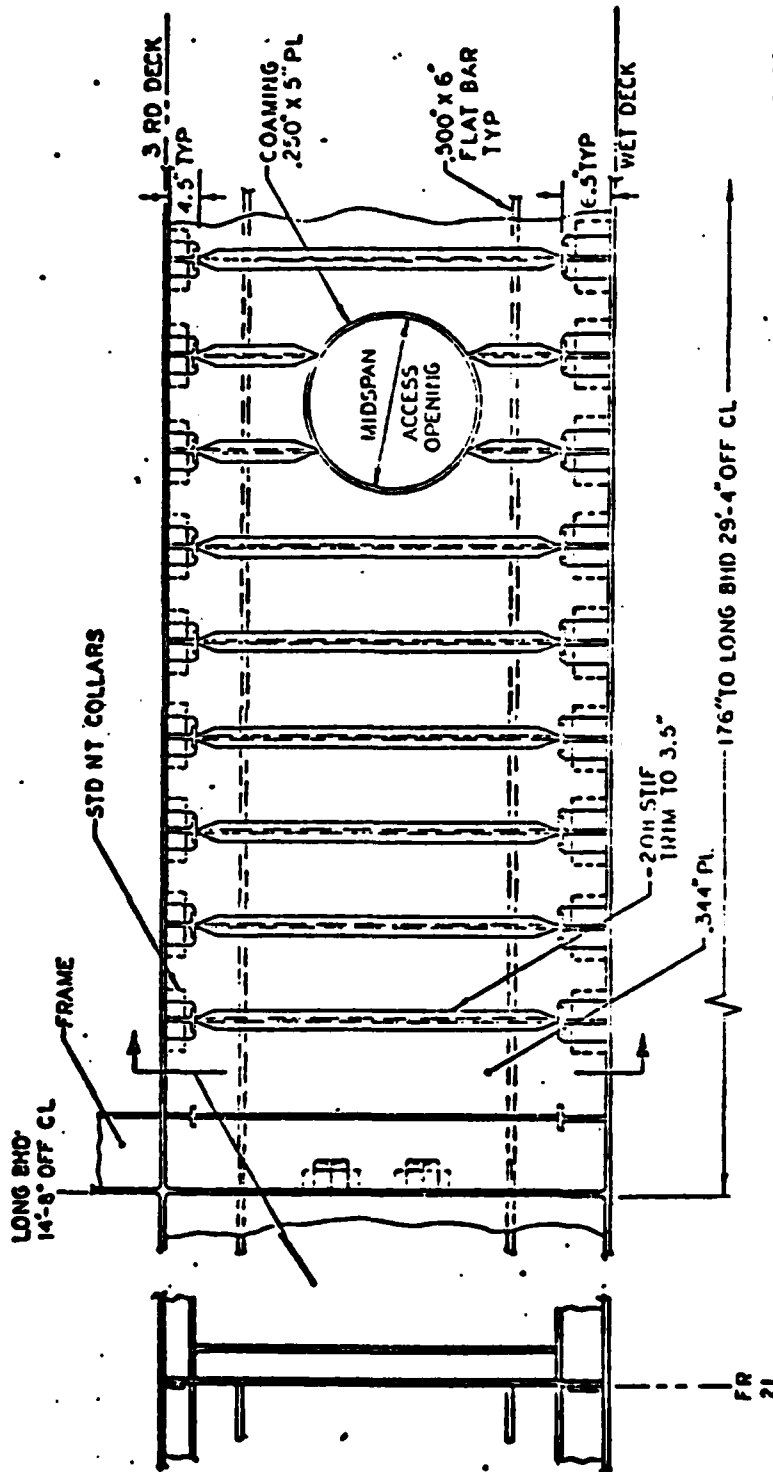
11-2-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	*
30	24.7	215

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: 3 KSES FRAME 47

INNER BOTTOM GIRDER  
CONST WEB WITH TRANSVERSE FLAT BARS

Figure D-6. Inner Bottom Girder, Web with Trans. Flat Bars (30 psi).



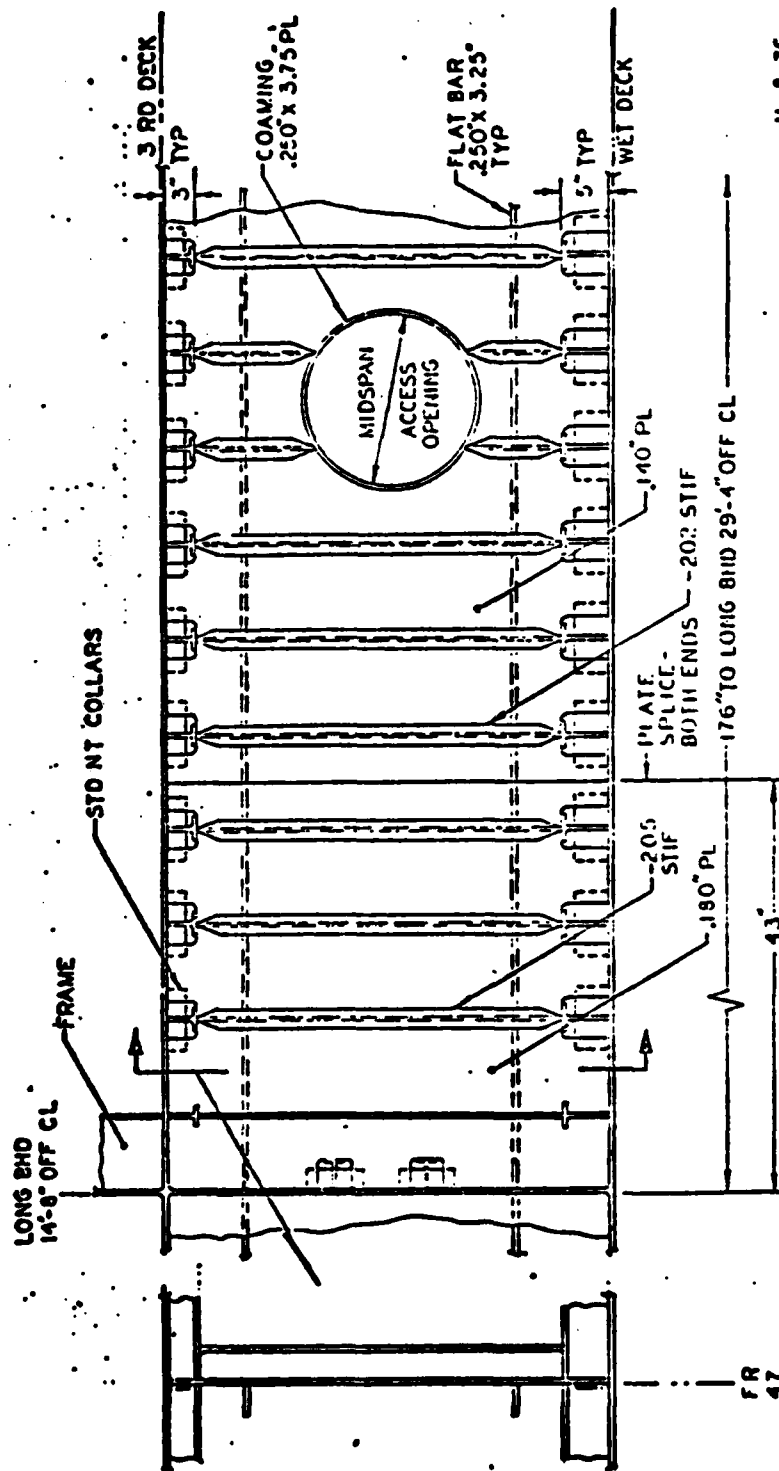
11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	%
60	24.7	4.24

EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: SKES FRAME 21

INNER BOTTOM GIRDER  
CONST WEB WITH TRANSVERSE FLAT BARS

Figure D-7. Inner Bottom Girder, Const. Web with Trans. Flat Bars (60 psi).



11-8-76

WET DECK	MAX TANK	WEIGHT
HYDRODYNAMIC	PRESSURE	(LBS/BAY)
PRESSURE (PSI)	(PSI)	*
30	24.7	191

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: JNSES FRAME 47

INNER BOTTOM GIRDER  
STEPPED WEB WITH TRANSVERSE FLAT BARS

Figure D-8. Inner Bottom Girder, Stepped Web with Trans. Flat Bars (30 psi).

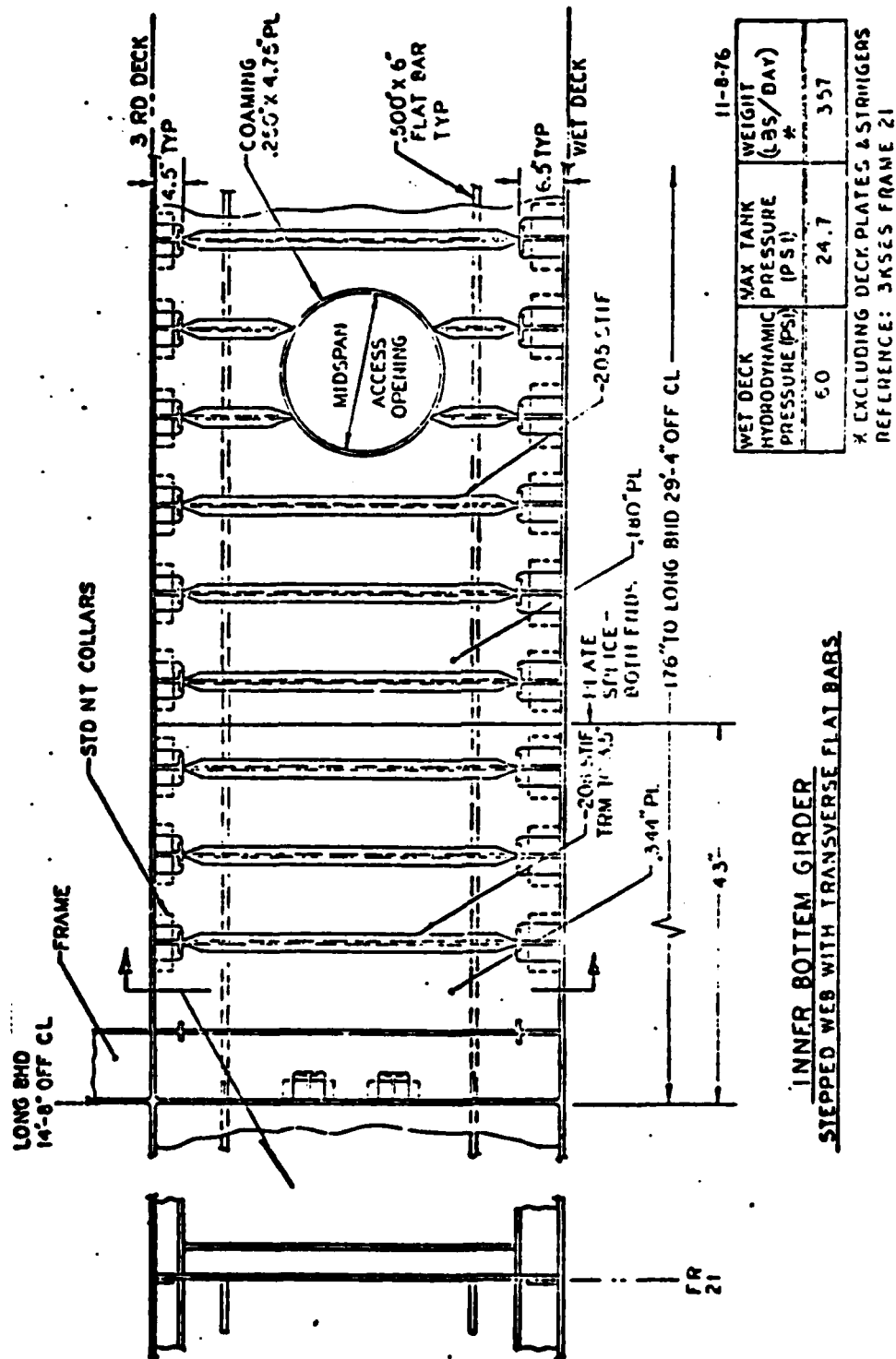
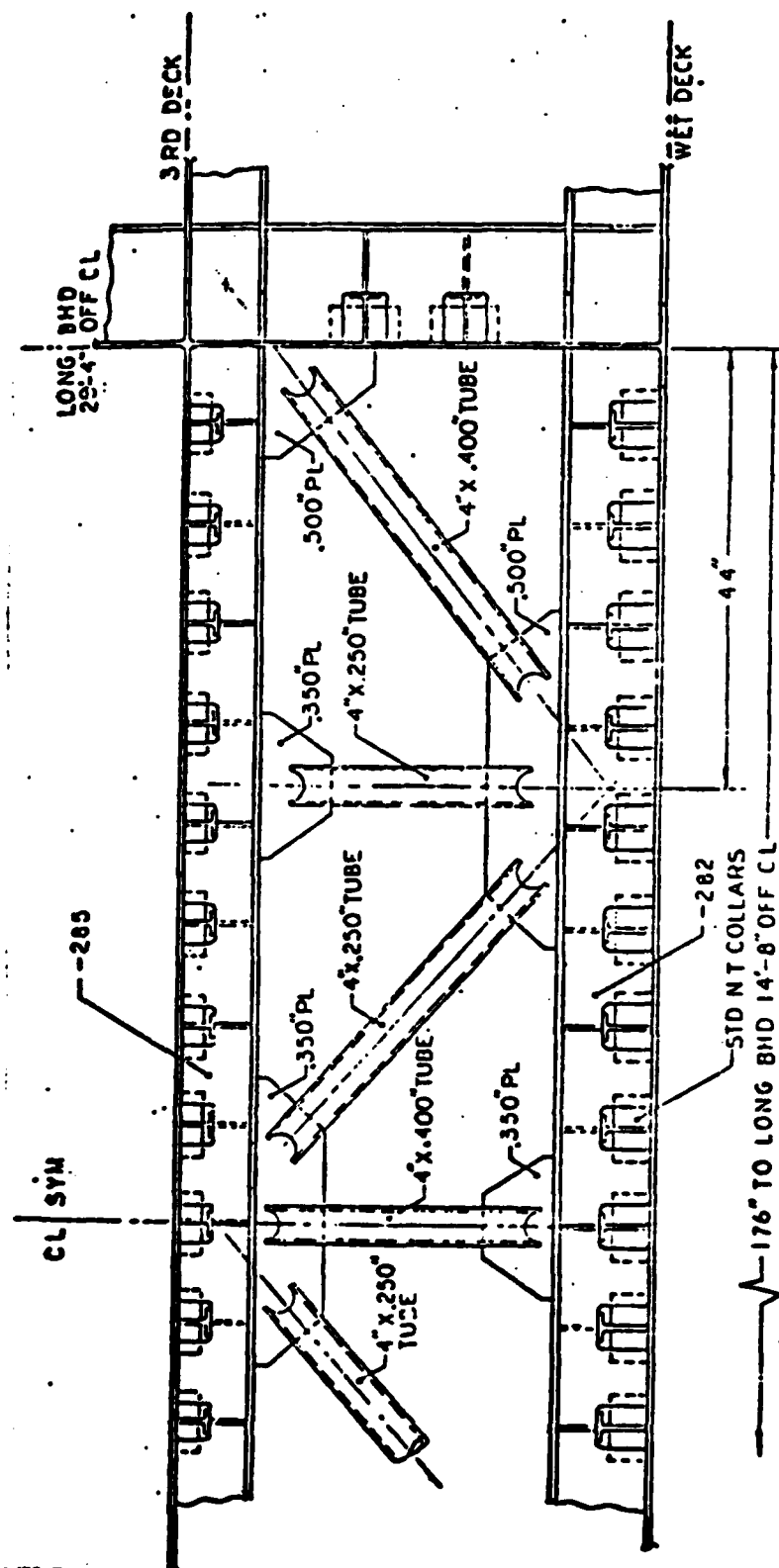


Figure D-9. Inner Bottom Girder, Stepped Web with Trans. Flat Bars (60 psi).



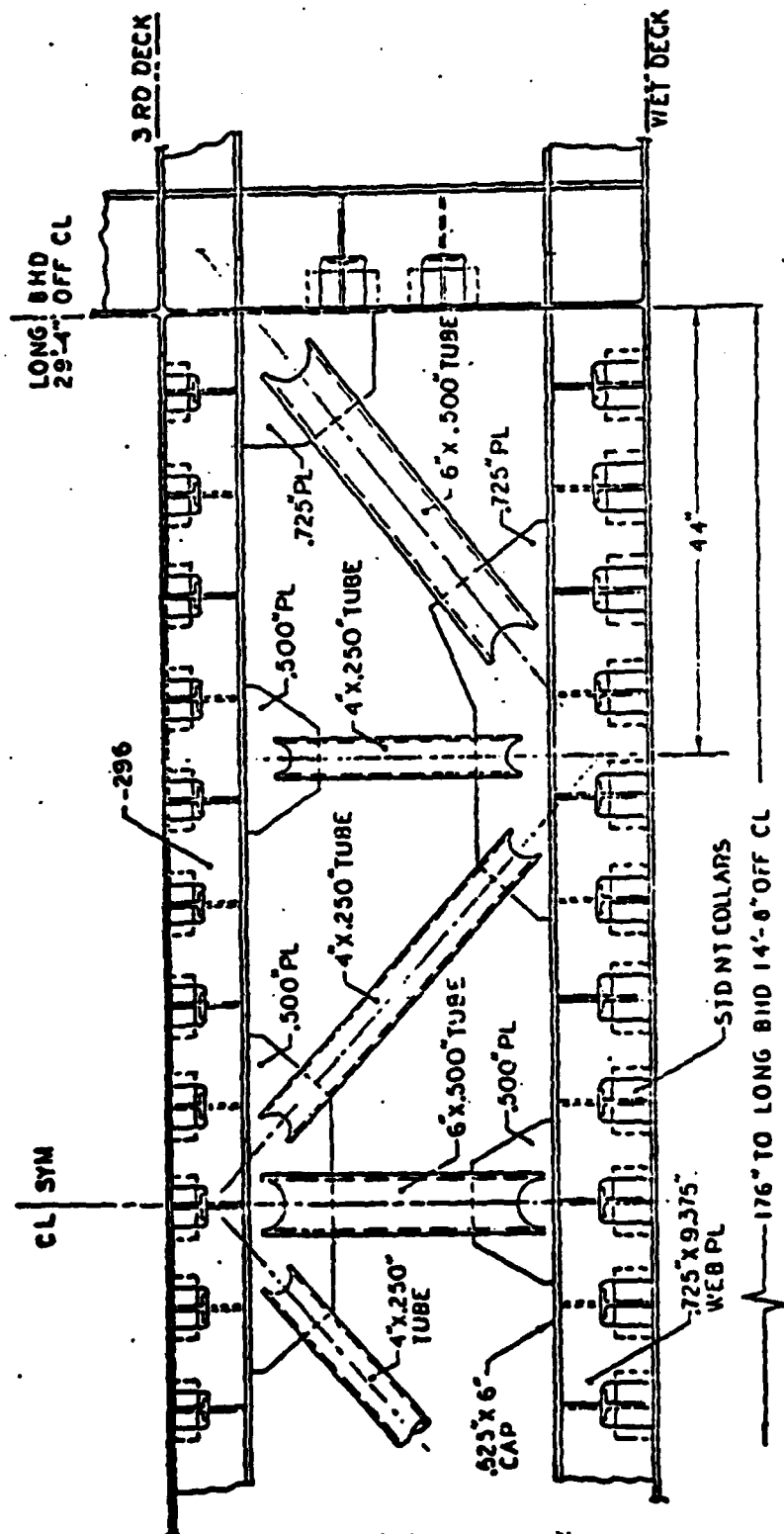
K.D. NICHOLS 11-3-76

WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	APPROX WT (LBS / 9AY) #
30	24.7	345

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE: 3KSES FRAME 47

ROUND TUBE CONCEPT  
INNER BOTTOM TRUSS

Figure D-10. Round Tube Concept, Inner Bottom Truss (30 psi).



K.D.NICHOLS 11-5-76

WET DECK HYDRODYNAMIC PRESSURE (PSI)	MAX TANK PRESSURE (PSI)	APPROX WT (LBS/BAY) *
60	24.7	578

\* EXCLUDING DECK PLATES & STRINGERS  
REFERENCE 3KSES FRAME 21

ROUND TUBE CONCEPT  
INNER BOTTOM TRUSS

Figure D-11. Round Tube Concept, Inner Bottom Truss (60 psi).